

|          |     |        |       |        |   |
|----------|-----|--------|-------|--------|---|
| HCUAL07  | 449 | 953876 | 1-442 | 15-456 | AD91283, AI091391, AI143678, AW152653, B92931, AW243238, AI863952, AI263430, AI308855, AA814965, AF079098, and AF079099.  |
| HCUAM57  | 450 | 574375 | 1-313 | 15-327 | T91791, AW071109, AI087055, AA338281, AA251575, AA525157, AA973913, AI348567, AI370548, AC004000, AI121769, AI049759, AI021940, AC008115, AC003108, AC008119, AI370528, AC005037, U96629, AC009464, AC007676, AC002349, AI079342, AI050317, U95739, AC007308, AC003101, AC007263, AI034549, AI136504, AC003962, AC005899, AF130343, AI122020, D87675, AI034429, AC004616, AP000141, AC003037, AC005067, AC004890, AC002992, AC007253, AC002302, AC007240, Z82203, AC004685, AC004491, AC004953, AC003951, AC004132, AC015853, and AC006211. |
| HCUAM95  | 451 | 727174 | 1-243 | 15-257 | AA613766, Z822901, and AI136520.  |
| HCUAN44  | 452 | 574154 | 1-499 | 15-513 | AA985143, AI113245, AC009239, AP000500, Z97183, and AI020997.   |
| HCUAN49  | 453 | 577897 | 1-163 | 15-177 | AA651923, AA765019, AI668900, AA968447, and AC004968.   |
| HCUAN72  | 454 | 850140 | 1-191 | 15-205 | AI049709.   |
| HCUA003  | 455 | 924902 | 1-311 | 15-325 | AA59705, AI886736, AA765409, AC005011, AF196971, AC006530, AC005520, AC006236, and AB020875.  |
| HCUA028  | 456 | 850062 | 1-334 | 15-348 | T94088.   |
| HCUA092  | 457 | 506688 | 1-279 | 15-293 |   |
| HCUAR07  | 458 | 953872 | 1-147 | 15-161 | AW167136.   |
| HCUAR07  | 459 | 953869 | 1-484 | 15-498 | AI042660, AA633908, AI791151, AW393562, and AI021396.   |
| HCUAL02  | 460 | 920694 | 1-140 | 15-154 |   |
| HCUAU16  | 461 | 574193 | 1-294 | 15-308 |   |
| HCUAAX57 | 462 | 934633 | 1-294 | 15-308 | AD243475, AW183326, H22954, and F04138.   |
| HCUBB28  | 463 | 685493 | 1-225 | 15-239 | AA569686.   |
| HCUBB46  | 464 | 577238 | 1-327 | 15-341 |   |

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|--------|-----|--------|---------|----------|--|
| HCUB26 | 465 | 810522 | 1 - 99  | 15 - 113 | AA381762, M78032, AA381747, AW339422, AA470400, AI198718, AI1590404, A W404225, AI045108, H62530, AA297207, H54511, N41775, AI915081, F35684, AW440368, AW247389, R69819, AA856866, AA501807, AE306717, AI309943, AW440568, N67313, AA565911, AA678932, AW081610, AI538236, AI824476, T94988, T74524, N84161, AA714073, AA665532, HI2857, AI823705, AI925065, AI025930, C06004, AW088631, N68449, AW238233, AI889995, AI271762, AA745351, AA513851, AA678616, AW078821, AI962030, AI018923, AI0412829, AW088656, AI653776, AI126814, T07225, AW019964, AA749152, AA496309, AI644223, AW338860, AA581498, AI620992, AA68494, AA552386, AW390284, AA630122, AI474665, AA846923, AI457389, AI568659, AW701131, AI417386, T40629, AA297662, H01852, AA846923, AI457389, AI568659, AW701131, AI417386, T40629, AA297662, H01852, AW082104, R93919, AI041924, AW080118, AI648514, AW084173, AI72736, T52822, AA579399, H40478, AI561241, AW021007, AW086291, AA309362, AI806535, AA584756, AA331158, AI053934, AA601653, H07953, AA744048, AI955360, AA745383, AI120976, P08866, AI053597, AI889579, H25938, AW328446, AI277373, AI278440, N70449, AI599080, T54144, AA368359, AI598056, AA862312, N54538, AI445557, AA179659, AI041240, AW265688, C06210, T40799, AI445338, AW263279, AA878492, AA434078, M77908, CI5504, AI278972, AI146336, AA189097, AI049630, AA586433, AI079809, AA218631, AW242031, AW408767, T92394, AA339923, AA744094, AA654038, AP000065, AI049576, AC004655, AI034418, AC002429, AC005037, AI109984, AI031848, AC002288, AC007055, Z99716, AI049776, Z93017, AC004882, U62293, AC006449, Z84480, AC006539, AI096701, AC005562, AC006238, AC005057, AI031311, AC006211, AC004000, AC002302, AC009516, AI031680, AP000252, AF111168, AI135744, AP000689, AC005884, AC007676, AC007993, AC004966, AC004644, AP000555, AP000131, AP000209, Z83820, U91321, AP000212, AP000134, AC005871, AI109628, AC005519, AP000208, AP000130, AP000248, AC007227, AC005488, AI049757, AC006101, AP000247, AI139054, AC006578, AC007878, Z69733, AC005261, AI022721, U91323, AC004531, AC004098, Z85986, AC005225, AB003151, AC005726, AP001532, AC003013, Z83826, AC004628, AI035249, AI121638, AC006480, AC005253, AC004491, AC006121, AI031597, AI031846, AC005071, AI031767, AP000213, AC000025, AI022165, AF146367, AC004938, AI049712, AI022323, AI133485, AI049569, AC006065, AC004855, AC007376, AC005015, AC004448, Z84469, U78027, AP000135, AI109952, AI031282, L35533, AC000552, AC004031, AC004662, AI035409, Z97630, AC005520, AC005399, AC004876, AI096791, AC006381, AP000557, AC006285, AI121635, AI003147, AI080243, AC002425, AC005800, AI049653, AC005060, AC004895, AC006425, AC006160, AC005081, AC004125, AC004859, AC002375, AC004520, AF111167, AI031291, AC008115, AC005180, AC005730, AC006515, AI024498, Z84487, AI035422, AF124523, AC004887, D83253, Z93241, AP000031, U95740, AC004409, AP000356, AC005332, AC000333, AP000556, AI049795, AF109907, AC004878, AI133448, AF176915, L78810, AC003665, AI031657, |
| HCUB27 | 466 | 574097 | 1 - 407 | 15 - 421 |  |

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|---------|-----|--------|---------|----------|--|
|         |     |        |         |          | AL022163, AL021391, AC004522, AL109758, AC005412, AC004216, AP000008, AL035587, AC006120, AC006014, AL021978, AC005911, AC004150, AL049829, AL031005, AC004019, AP000967, AF129756, AC005291, AC006958, AP000704, AC003950, AP000688, AC002527, AC004999, U85195, AC004814, AF165926, AC006487, AC006077, AC004817, AC004858, AC003029, AC005295, AC007308, AL034420, AC002036, AC006026, AL246003, AL049631, AC005089, AC016025, AC005088, 299496, AL022315, AL031781, AC003109, AC000052, AL022396, AP000044, AC004382, AC006001, AC006511, AL022318, AP000345, AC004983, U80017, AF200465, AC005280, AB000638, AC004771, AC007773, 283844, AP000215, AL031733, AL035684, AC005529, AL035071, AC006396, AC005913, U95742, 298950, AL022320, AC004963, AC005011, AL136295, AL031659, AC005005, AC007533, AC002554, AC005874, AF134471, AC005899, AL030307, AC007066, AC007277, AC007546, AL034451, AL049872, AL031427, AP000697, AL035086, and AC002511.  |
| HCUBE55 | 467 | 574203 | 1 - 376 | 15 - 390 |  |
| HCUBG79 | 468 | 781681 | 1 - 177 | 15 - 191 |  |
| HCUBG83 | 469 | 537501 | 1 - 206 | 15 - 220 |  |
| HCUBH45 | 470 | 575720 | 1 - 121 | 15 - 135 |  |
| HCUBI13 | 471 | 862161 | 1 - 375 | 15 - 389 | H93071, H50664, AW086257, A1754336, AG634786, AW021583, A1939442, AL138396, AW008317, T91187, T40617, A1E307201, A1I92631, A1R04138, U91321, U52112, 229373, AC005229, AP000337, AB012286, A1I09801, AC004966, AC005089, AC004638, AC006449, AC006049, AP000215, AC002553, AC006382, AB023049, AP000961, AC009069, AL031577, AL035703, AC006312, AC007057, U76377, AC004485, AC006253, AP000513, AC009743, AC012599, AL022238, AC005081, AL049539, AF095725, AC005231, 268870, AL021394, AC003012, AC004864, AL049557, AC004099, AC006237, AC007151, 282194, A1229042, AC004841, AL049776, AL031427, AC004520, AL035494, U80017, AC006441, AC005274, AC004913, AL033518, AC005695, AP000079, AC005049, AL117340, AC005067, AL023575, AC004770, AL023807, AC005145, AL122126, 294277, AC004974, AC005335, AL031681, AC007537, AC004887, AC005790, AL049576, AC000353, 294721, AC008928, AC011604, AL080243, AL031665, AB000658, AC005324, AC005519, AC005069, U85195, AC004257, AC005799, AC004820, AL031447, AP000354, AC005827, 144140, AC005780, AC005971, AP000959, AL132987, AC005255, AL079295, AC004253, X87344, AC004890, AC000069, AL049777, AL035683, and AL023576. |
| HCUBI14 | 472 | 574199 | 1 - 99  | 15 - 113 |  |
| HCUBI15 | 473 | 881192 | 1 - 338 | 15 - 352 |  |
| HCUBI38 | 474 | 792415 | 1 - 533 | 15 - 547 |  |
| HCUBI43 | 475 | 685512 | 1 - 115 | 15 - 129 | A1246003, and AL121638.  |
| HCUBI49 | 476 | 961748 | 1 - 144 | 15 - 158 |  |
| HCUBI74 | 477 | 574235 | 1 - 388 | 15 - 402 |  |

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|--|-----|--------|---------|----------|---------|
| HCUBJ11  | 478 | 967484 | 1 - 314 | 15 - 328 | D61636. |
| HCUBJ42  | 479 | 574265 | 1 - 312 | 15 - 326 |         |
| HCUBK01  | 480 | 917257 | 1 - 409 | 15 - 423 |         |
| <p>             AIZ79417, AA558404, T05617, AI049955, AI568659, AI284536, AI251563, AA491423,<br/>             AA610255, AI792695, AW302832, AI024511, AI792856, AL040816, AA629759, AA078384,<br/>             AA635433, AW271095, AA381990, AI135377, AI948984, AI733946, AI039042, AI039041,<br/>             AA775205, AI948959, AI733930, AA652910, H45698, AA838192, AA101744, AI929842,<br/>             AI281622, AI043878, AI252190, T52745, AA557911, AA743968, AI815583, AW407632,<br/>             AI732807, AI252141, AW328202, AI816537, AI280574, AI121287, AW337805, AI358712,<br/>             AW275432, F01666, AI792746, AA874999, AI753672, AA642823, AW265155, AI048479,<br/>             AA326452, AA324088, AI282629, AI798313, AI042373, AI245693, AI129421, AA326630,<br/>             AA582746, AA683069, AW151018, AI118925, AA564925, AA303770, V24312, AI038977,<br/>             AA460924, AI049845, AA772873, AI798041, AA579399, AI14657, AA536040, AI249365,<br/>             AI096791, AC007025, Z82244, AC006312, AI049699, AC004185, Z97634, AC006026,<br/>             AC005737, AC009247, AC007639, U80930, AC005670, AF157623, AI034402, Z98743,<br/>             AC005725, AC005365, AC004668, AF006752, AC005338, AC004096, AC007385, AC005952,<br/>             AC005072, AF024534, AC004031, AI050318, AC004254, AC005081, AI080317, Z97832,<br/>             AI035495, AC005751, AC008123, AC002316, AC005086, AC004099, AC006012, AC004799,<br/>             AP00109, AP000041, AI034549, AC000039, I47234, AI022238, AC007385, AC005952,<br/>             AC006441, AI050332, AI049650, AI135744, Z83838, Z83826, AC006965, AC011331,<br/>             AP000008, X62358, AI023807, AC002295, Z98747, AC002366, AF051976, AC004694,<br/>             AC007773, AP000153, AP000704, M89651, AC000082, AC005300, AI031737, AI008712,<br/>             Z97053, AI139034, AI031904, AC009294, AC008044, AC005587, Z99496, AC004531,<br/>             AC007130, AC005661, AC003037, AI024498, AI023879, AC004778, AC007566, L81612,<br/>             AC005037, D84394, AI022311, AF091512, AI132987, AC004663, AC006047, AI008582,<br/>             Z83843, AC005736, AC005164, AI096803, AC000088, AC005088, Z99570, AI109628,<br/>             AC000394, AP000509, AI008718, AC006236, AC000071, Z95118, AC004656, AF001552,<br/>             AC005546, AC005695, Z84484, Z99716, AP000504, AI022326, AC004961, AC004686,<br/>             AI080250, AP000347, J0083147, Z95115, AC004013, AC006693, AI010770, AI121754,<br/>             AC004881, AC009363, Y12853, AC004097, AC005005, AC004922, AI049758, AC002544,<br/>             AC005609, AC005666, AF130342, AC005753, AI117355, AC007565, AC005519, AI034420,<br/>             AI049776, AC002545, AC005015, AC004921, AF129756, AC005632, AD000864, AC004851,<br/>             AC005099, AC004750, AP000288, AC005280, AC005487, AI021578, AI031735, AC003353,<br/>             AI049631, AI022717, AC003107, AC006597, Z82194, AI079304, AC009784, AC007201,<br/>             U73643, AI031003, AI031387, AC003682, AI035461, AC007625, AC007899, AI024509,<br/>             AC005041, AC007536, AI035462, AC005681, AI035460, AI021398, Z49208, AC005003,<br/>             AC003012, U52111, AC020663, AC006946, AC005484, AC004583, AI109963, Z83844,<br/>             AI031447, AP001550, AI229043, AC009179, AI109798, AP000501, AI096757, AI078638,           </p> |     |        |         |          |         |



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|--------|-----|--------|-------|--------|---|
|        |     |        |       |        | AB020877, AF087143, AL078581, AC006487, AC004132, AC007151, AC005568, AL035443, AL049792, AC006088, AC005011, Z84496, AC005225, AL031728, AL022718, AL021391, AL080239, AC007221, AC004771, AL035587, Z97352, Z68873, AC006237, AJ236701, AC007546, and AF134726.   |
| HCBK36 | 481 | 850132 | 1-492 | 15-506 | AL200051, AA714595, AW086257, AW406755, AA317170, AA610438, AA342256, AL118947, F32705, AW408063, AW069807, AL358229, AL345518, AA526193, AL037291, AA663306, AL281881, AA557879, AA652057, AA649642, AA569468, T40617, AL690994, AA503168, AI963095, AL118911, AI049634, AA670126, AA743972, AA095511, T63597, N27353, AW088058, AA125788, AW263393, AI196798, AW023389, AW028429, AL050670, AW406447, AL281903, AL037945, AI061296, AL355206, AL041368, H58472, W07032, AW406659, AL138242, W07122, AL134703, F29989, AI365988, AL133862, AI865804, AA491814, AA747889, AW339687, AA516225, AL038990, AL035272, AA932099, AW302909, AW008317, AA228420, T59509, H86301, AI446474, AL042420, AA318652, AI912322, AW407340, H86264, AI708009, AL119123, AI352078, AA720746, AW316969, AI796627, AW439558, AL048925, AA640979, AL036523, AI633007, AA838479, AI679713, AI801482, AA947370, AA449854, AA838477, AA121919, AA878495, AA658235, AA804993, R44592, Z97198, AP000503, AF134726, AC005067, AP000275, AC004614, AP000037, AP000105, Z94721, Z84814, AC007130, AC007690, Z32772, AL008721, AC020663, AL031662, AC000086, AP000701, AL022098, AC004841, AB020869, AP000017, AC005365, AC006001, L78810, AC007051, AC007919, AC000070, Z93016, AP000884, AC005754, AC004477, AP000962, AC002045, AC005593, AC007395, AI096766, AC002349, AC004887, AC004891, U91325, AC004534, AL132712, AB003151, AP000688, AC004760, AP000159, AP000018, AC006111, AC004799, AC004820, AL031587, AL035450, AL096701, AC007240, AL080317, AC004991, AC005081, AC004814, AC007024, Z73358, U91319, AC003009, AC003005, AL035535, AI109758, AC006064, AC005329, AC005887, AL034402, AC005880, Z95152, AC002365, AC010175, AC005829, AC007970, U75638, AC004996, AC005164, AC005701, AL021395, AL078639, AC005376, AL022158, AP000349, AL109759, AF045555, U75645, AC002072, Z86090, AL035604, AC005940, AL031769, AL049759, AF043105, AL049539, AC008372, AC008122, AC007001, AC004061, AP000557, Z98048, AC007444, AC004263, AC004755, U11309, AC006600, AL023802, Z74617, AC000125, AC007536, AC004650, AC005699, AC003688, AF129756, AP000517, AP000692, AL031132, AL021154, AC003963, AC006254, AL023801, AF067846, AC007695, AL096774, AC004008, AL049633, AC012380, AL035420, AL031291, AC007535, AL022329, AC006532, AL008731, AC005019, AF027550, AC004896, AL022337, AC006275, Z98749, AP000350, AF001549, AC004881, Z85986. |
| HCBK39 | 482 | 577234 | 1-491 | 15-505 |   |
| HCBK46 | 483 | 574120 | 1-368 | 15-382 |   |
| HCBK49 | 484 | 574122 | 1-365 | 15-379 |   |

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|---|-----|--------|---------|----------|---|
| AL022323, AB001523, AC005520, AL078581, AC004675, AL003147, AB023054, AC004186, AC007245, Z83826, U81136, AC003101, AL031447, AL009181, AC005666, AC005345, AL135783, AL049636, Z98051, AF088219, Z93241, AL034419, AC005778, AC005777, AL022578, AC007237, AC005264, AB011147, AL023284, AC009516, AC005280, AC004408, AC004232, AC002117, AL133382, AL049635, Z86061, Z97181, AC005751, AC007387, AL109613, AL031257, AF095725, AC005003, AC004913, Z93783, AC007243, AL035587, AC004797, AL021307, AC004188, AC007327, AC000387, Z99291, AC005157, AC009721, AC006039, AL049780, AC005274, AC007993, Z97352, AL034420, AJ005683, AC005064, AC004081, AL023582, AL117352, Z93020, AC009501, AC005411, AB014086, U78308, D86998, Z69719, AC004467, AC008928, AL049591, AC002464, AC005783, AC004963, AL035410, Z68344, AC006079, AC004973, AC004222, and AL109827. |     |        |         |          |   |
| HCUBL12   | 485 | 739021 | 1 - 198 | 15 - 212 |   |
| HCUBL65   | 486 | 574201 | 1 - 297 | 15 - 311 |   |
| HCUBM86   | 487 | 577291 | 1 - 332 | 15 - 346 | AL117328.   |
| HCUBN07   | 488 | 953879 | 1 - 179 | 15 - 193 | AA662395.   |
| HCUBN21   | 489 | 577287 | 1 - 331 | 15 - 345 |   |
| HCUBN38   | 490 | 971421 | 1 - 172 | 15 - 186 | AW089099, and AC004227.   |
| HCUBN66   | 491 | 664536 | 1 - 135 | 15 - 149 |   |
| HCUBO08   | 492 | 959928 | 1 - 305 | 15 - 319 | AC006388.   |
| HCUBP09   | 493 | 526757 | 1 - 133 | 15 - 147 | AL031683.   |
| HCUBP89   | 494 | 850016 | 1 - 347 | 15 - 361 |   |
| HCUBQ76   | 495 | 575352 | 1 - 269 | 15 - 283 | AL061235.   |
| HCUBQ85   | 496 | 967074 | 1 - 327 | 15 - 341 | AW328178, AW228000, AA501777, AA503770, AA749428, AC004854, AC005536, AP000547, and AC004621.   |
| HCUBS58   | 497 | 522378 | 1 - 295 | 15 - 309 | AA342137, F19690, AA069872, T78945, AA347735, R68248, AI453160, AI564294, AA632765, AI471467, AA181917, W01359, AC004983, AC007225, D87675, AC004851, AP000090, AF196969, AC004967, Z98941, AL031003, AF222685, AC005233, AC002126, AC006241, AC007382, AF130248, AC007193, AL035086, U07563, AC004778, AC000070, AL096702, AP075007, AC005529, AL080286, AP000689, AP000688, AC000025, Z83846, AP000354, AB003151, AL109738, AL034554, Z97053, L44140, AP001052, AC002477, AC005962, AC004168, AL117337, AL021155, AC005226, AL031681, AL031255, U91321, AL133163, AC004228, and AL035460. |
| HCUBS72   | 498 | 577286 | 1 - 431 | 15 - 445 | AI355281, AL078712, AA664521, AL076616, F31799, F37223, AA310117, AA077302, AW166611, AW131457, AL038936, F31465, AA133650, AI357823, AA648858, AA658846, AW408161, AI026366, AA482896, AL048544, AA133651, AW380074, AL0799466, H21449, AI752978, H42075, AA482768, AI139971, C05928, AI860423, AL119295, AI701959, AW167372,  |

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|         |     |        |         |          | N27353, AA670108, AA338522, AA342901, AA576336, AA736963, AA347109, AA569206, AL037285, AI186233, AA354785, AI783494, AA342256, AP000555, AC013853, AF205588, AC004999, AL034423, AC003075, AC005031, AC005387, AC002036, Z99496, U80017, AC016027, AC016830, AC005920, AF134726, AC008984, AL078581, AL021085, AC005253, AC005519, Z98051, AC005385, AC004895, AC005828, AC003002, AC006139, AL121652, AL035400, AP000503, AC006544, AC006101, AL121578, AF140764, AC000041, AC004016, AC000025, AL021917, AL035597, AC004686, AB026898, Z85986, AP000350, AP000514, AC002316, AL031295, AC006121, AC007533, AC006372, AC004655, AC007387, AL021453, AL109967, AL133304, AC007637, AC006430, AC001066, L81893, AL078472, AC007096, AC006077, Z83826, AC005011, AL049829, AC007151, AP000245, AC016831, AC004254, AC005237, Z99570, AL031662, AC004132, AL035587, AC005488, AC007666, AC007285, AC002037, AC003973, AC007707, AL008730, AC005200, AL022328, AC007050, AL009174, AP000704, AC002059, AC006992, AC007313, AC005081, AC007023, AC000105, I59642, AF106918, AC004779, AC005346, AC004791, AP000255, AL035424, AP000129, AP000207, AP000213, AC004996, AP000135, Z98044, AL009179, AL035684, AP000031, AL121877, AC004019, AC007721, AC005772, AC005057, AC004970, AC006285, AL021579, AL022329, AL023656, AC005839, AC005362, AC004383, AC003665, AC006432, Z93017, Z94161, AC006255, AC007455, AC004595, AL021578, AL133163, AC000353, U52111, AC007688, AC005280, U95742, AL023279, AC005954, AC005520, AC005018, AL031864, AC007216, AC007685, AC007245, K03555, AP000008, AB000882, AL031311, AC002045, AP000962, AC004933, AC009399, and AL008719. |
| HCUBT02 | 499 | 920682 | 1 - 306 | 15 - 320 | AI188587, AA705559, H47182, H47091, and AF147424.   |
| HCUBT94 | 500 | 574239 | 1 - 528 | 15 - 542 |   |
| HCUBV04 | 501 | 615547 | 1 - 372 | 15 - 386 | AW026750, AA579906, and AL035090.   |
| HCUBX57 | 502 | 506518 | 1 - 346 | 15 - 360 | AW084004, AA364082, AA351808, AW089950, AA533660, AC005920, AF196969, AC005031, AC000025, Z83844, AC008101, AF047825, U80017, AC005520, AC004805, AC004851, AC006276, AL022238, AL050140, AC005695, AC005971, AL049869, AC006511, AC005214, Z75891, Z82180, AC005231, AL049780, AB029020, AF196779, AL139054, AC004263, AC005696, AC002319, AC007421, AC004796, AF053356, U95742, AF117829, AC005088, AC002477, AL050350, AC005015, AC005702, Z95114, AL117337, AC005409, AC004084, AC007216, AF001548, AC006443, AC004797, H4294, AL133448, AC004910, AC035461, AL034423, AL121825, AC002350, AL133245, Z94160, AC005519, AP000514, AC002301, AC002316, AC006139, AC005011, AC002430, AC003950, and AC004381.  |
| HCUBZ57 | 503 | 529702 | 1 - 329 | 15 - 343 |   |
| HCUBZ86 | 504 | 694720 | 1 - 247 | 15 - 261 |   |
| HCUBZ88 | 505 | 574096 | 1 - 297 | 15 - 311 | AI341867, and AA608765.   |
| HCUBZ96 | 506 | 506585 | 1 - 293 | 15 - 307 |   |

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| HCUCB20 | 507 | 574189 | 1 - 415 | 15 - 429 | AL031295, AC002316, and AC005696.  |
| HCUC20  | 508 | 573901 | 1 - 347 | 15 - 361 | AA986600, AA515224, A182479, FI3749, A1870444, AA747472, AW167909, AW438643, W21218, AW090629, A1962050, AW023975, A1135643, AA659083, AW19262, A1751162, W162288, A1917271, A1307201, A1431303, A1688846, A1284640, A471481, AA657741, AW029038, A1696793, A1345654, F36273, AW166815, AW193265, AA527954, A1530211, A1041854, A1904894, A138421, AW193432, A1718421, A1653886, AC004821, S77605, AC006312, AL008715, AF165926, AC006960, AC005412, AL008635, AC004491, AC002449, AC009225, AL031670, AC008009, AC004985, AC005874, AF134477, AC004382, AC004675, AF088219, AC004797, AC005220, AL109801, AC003681, AF205588, AC020663, AC006111, AL035587, AC006992, AC007676, AL034376, AC005696, AC005695, AL035086, AF003626, AL022313, AL121655, AP000347, AL035460, AC009248, AC003110, AL035413, Z82097, AL031584, AC004972, U02292, AP000346, U82671, AL096791, A1251973, AC005034, AC004685, AC007878, AC007292, AC004690, AC005821, Z93930, AC004834, AP000240, AC004263, U52112, AF196971, AC005594, AL022322, AC006543, AC005776, U63721, AC006241, AL136295, Z97054, AC004098, Z82244, AC004991, AC004084, AF190465, AC003353, AC004103, AE000662, AP000553, Z83844, AC004837, Z84477, AC003047, AC007277, AC006101, AC006571, M94081, AL008729, AL033527, AC006544, AF045555, AC002369, AC005255, AC002301, AP000289, AL080276, AL096677, AL021391, AP000501, AC005041, AC005482, AC006552, AP000042, AP000504, AP000110, AC006511, AC007666, AC008984, AF155238, AC005037, Z97056, AR036572, U91328, AC002316, Z94160, AL121603, AL117351, AL079295, AL078471, AC004655, AC005048, AC005632, AC007536, AL049761, Z99570, AL008583, AL022237, AC007731, AF129756, AP000339, AP000518, AC005500, S42659, AC006480, AC007151, Z95113, AC002543, AC002470, AB026899, AP000217, AC006251, AC005702, Z70288, AC005514, AL132987, AC004678, AL022334, U00254, AC005664, AC002289, AC004841, AC005619, AC004126, AC008064, AC007993, AF037338, AC006538, Z97183, Z85986, AL035403, AC002326, AC005553, AL022476, AC005377, AL031387, Z99129, Z82245, AC007387, AC007051, AC007546, AC004500, AL109758, AL031681, AC005071, Z68273, U95742, AC007308, AP000355, Z81370, AC005015, AL009031, AC006547, L78833, AC004859, AL022323, AC007919, AC005003, M87923, AC005094, AL132712, AL031281, AC004883, Z69890, AL096701, AL049830, AC007216, AC003065, AC003007, Z84469, U89337, AC003688, AL034417, AC006057, U73634, AC004933, AL049869, AC004216, AC007055, AL031005, AC000075, AC005033, AL109613, U73168, AC005330, AL009181, AP000269, S70707, Z84466, AC002365, AL031735, AC004000, AC004760, AC004447, AP000500, AL020997, AL109963, AC006276, AC006064, AL034384, AL049540, and AF134726. |
| HCUCB28 | 509 | 577129 | 1 - 291 | 15 - 305 | AL022318.  |
| HCUC96  | 510 | 796530 | 1 - 229 | 15 - 243 | AW003018.  |

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| HCUCD26 | 511 | 574098 | 1 - 226 | 15 - 240 | AB020868   |
| HCUCD82 | 512 | 780047 | 1 - 329 | 15 - 343 | R22017, AC004787, and AF165926.  |
| HCUCG21 | 513 | 671210 | 1 - 463 | 15 - 477 |  |
| HCUC143 | 514 | 715488 | 1 - 203 | 15 - 217 | D60319, D60589, D60408, D61144, D60853, AF119569, AF091501, and AF087651.  |
| HCUC190 | 515 | 967501 | 1 - 65  | 15 - 79  | AC007032.  |
| HCUC108 | 516 | 959910 | 1 - 531 | 15 - 545 |  |
| HCUC148 | 517 | 720905 | 1 - 245 | 15 - 259 |  |
| HCUCV13 | 518 | 574121 | 1 - 310 | 15 - 324 |  |
| HCUCV20 | 519 | 694398 | 1 - 250 | 15 - 264 |  |
| HCUDA38 | 520 | 862089 | 1 - 344 | 15 - 358 |  |
| HCUDB13 | 521 | 578712 | 1 - 323 | 15 - 337 | AA936845, N73060, N73203, R14903, AA988600, AA595504, M78131, AA774006, W68328, H15294, A1049504, AA364863, AW131417, AA077619, AA477517, H53101, AA665304, AA457230, N57709, AL037006, R38509, H58786, A1791561, AA173334, AA525407, H10454, R48980, AA636102, A1479068, AA225548, AA321595, N22153, AW192518, R82835, AW073498, H09639, A1929410, A1753672, A1019964, A1750950, AA693806, AA629412, AA479337, A1273675, AA296938, C14599, A1268564, AA706094, AA831801, C14880, A1138918, AA741020, A1367222, AA832016, A1371804, A1860535, AW276933, H633220, AW103407, R83708, AC009399, AP000128, AP000206, AP000245, AC005529, AL008715, AL034420, AC000025, AC005527, AC009247, AC004531, AC002407, AP000688, AC011331, AC002590, AC004466, AL008718, AC004540, AL031803, AC002381, AC006077, AC005351, AC005901, AC005822, Y11107, AC000086, A1133275, AC004910, AC006042, AC007919, AC006417, AF006487, AC004383, Z99716, AF111168, AL035587, AC005972, AL031577, AC006275, AC002301, AC002351, Z97054, AC007055, AC007537, AC002120, AC005591, AL031428, AF027974, AC000353, AL034419, Z95331, U72845, AC004955, AL031255, AC005088, AC004587, AC002563, AL133448, Z85986, AC005209, AL109963, AC007263, AC005480, AC007540, AP000116, AC005231, AC006388, AC000066, AC004000, AC005049, AC004851, AL035415, AC002073, AF134726, AC009509, AC005585, AL021154, AL118516, AC007227, AC007201, AC005071, AL096775, AC005740, AC005921, AP000555, AC004983, AL121915, AL049766, AC004139, AL049830, AC007226, AC004908, Z98752, AC007536, AC007559, AC004036, AC005037, AC005578, AF092925, AC006059, AC005486, Z98941, AC007028, AL101070, AC003064, AL078581, AC008249, AC007214, AC002072, Z82178, AC005796, AL109952, AL009181, AC005971, AC010168, AL033527, AC004054, AL049699, AD000812, U91324, AP000252, AL024498, AC003962, AF141308, AC006449, AL034418, AC008044, AL021578, AC005722, Z84474, AC005521, AC005479, AL033524, U91318, AL031685, AC004694, AC007899, AC004125, AC005399, AL121825, Z74739, AC006344, AC005005, AL035422, AL132449, AC006071, AC004019, AC005821, AC000026, AC006538, AL050318, AC006365, AC004817, U95740, AP000212, AP000134, AL109984, |

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| HCUDC45  | 522 | 576566 | 1 - 379  | 15 - 393  | U63721, AC003036, U69639, AC005520, AP000692, AI049869, AC004904, AC003670, L78810, AI139054, AC009721, AC005082, AC004017, AC004797, AC004084, AC004491, L13712, U93305, Z68281, AC005778, D84394, AI133353, AC004678, AI049829, AC005600, AC007542, AC006226, and U85195.  |
| HCUDC79  | 523 | 576577 | 1 - 154  | 15 - 168  | AC007324, AC008079, AC008101, and AC0016830.   |
| HCUDDD19 | 524 | 959706 | 1 - 1796 | 15 - 1810 | AI184562, AW248599, AW051528, AA447350, AI740715, AW316672, AW316654, AI952004, AA977191, AW363318, AA703205, AA149973, AI135413, AI1799559, AA459866, AI233370, AW264927, AW264916, N93625, AW297503, AI192819, W68805, AA402761, N53321, AI207204, AI809102, AA804623, AW057780, W68607, H80704, AA398493, H80394, H14357, AI581914, H51962, AI873736, AA3300679, AI689515, T33180, H80494, AA55067, H14357, H68104, H68105, AI807729, AI693622, AI273514, AI932996, AI932990, H80705, N48174, R92093, AI342079, AA903178, AI037469, D61862, H81412, AA460510, W25416, R92092, T24613, AA280237, AI493508, N74148, AA281536, AI525850, C20784, AW438613, AA923003, AI094325, and AB002330.   |
| HCUDDD43 | 525 | 850103 | 1 - 263  | 15 - 277  | AI49874, T39598, AA581903, AA630352, AI890928, AW023511, AI890570, AI859251, AA484148, AW702023, AA309460, AI334435, AW074398, AI561335, AI110770, AA226364, AW193546, AA342901, AI120502, AI266576, AI536555, AA715270, AI679706, AI612152, AI679132, AI287651, AI079683, AI446464, T63104, AI252114, AA177061, AW270270, AI792903, AA916039, AW162489, AI734002, AI358343, AI148277, AI279165, AW074207, AW338086, AI061227, AA523688, AI120687, AA587256, H60143, AI064864, AI252085, AA451612, AI138265, AW303876, AA348311, N66776, W47480, N64437, R44592, AI792864, AI733957, AI119984, AI053672, AI471481, AA744110, AA441788, AI334443, AI040130, AA594215, AA553465, AA491814, AA481363, AA652057, AA481375, AA649642, AI742771, AA386111, AI246796, AI674873, AI287451, AI274431, AA501722, AI610159, AI048925, AW34892, F19156, F36273, AI830390, AI041382, AI284640, AA483034, AI613261, AI125788, AW327360, AI040547, AH93634, AW172727, AW265009, AI137954, AA515938, AA578141, F03097, H92005, W45336, F35113, AI107160, AI116691, AA559290, AI049831, AI049697, AB020871, AP000193, AI109881, AI023281, AC005565, AP000117, AC004983, AC004021, AC006126, AI031293, AC005274, AI023575, AC004019, AP000049, AC004475, AC005089, AP000311, AC004067, AC007065, AI080243, AC005158, AC005837, Z83826, AI070666, AI096701, AC005412, AI096829, AC006277, AC005086, AB020870, AC002564, AB020859, AC004941, AC004616, AI049869, AI049757, AC002287, AC005483, AP003343, AC005252, AC000095, AP000173, AC002429, Z81369, AC000052, AI031430, AC005104, AI035684, AC005184, AF072711, AI079295, L14752, AF111169, AP000023, Z98885, AC005037, AI035249, Z68871, AF008472, AP000018, AP000160, AC004924, AC005199, AC009227, AC006482, AC005231, AC004813, AF047825, AI023807, AC006537, AC007934, AC005793, |

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| AL049795, AC006137, AL021707, AL031983, M86181, AC007312, AL022722, AL121603, AL096768, U95743, AC004987, AC000021, AC002428, AC006079, AC004050, AC004241, AL049575, AL021154, AL031255, X06123, AL022238, AC006556, AC006273, AC007565, AF020503, AP000555, AC004559, AC005899, AC003003, AL239321, AC006205, AC005324, AP000967, M26434, AL136504, AF164343, AC005340, AC004534, AL079340, AC002519, AL021918, AC004817, AC004447, AL031296, AC007742, AL031256, AL049830, U89335, AP000692, AL031769, AC005256, AC004755, AL031224, AC002485, AC006023, AC006317, AC002368, AC005924, AC004851, AC007707, AC007463, AL031686, AL050318, AP000043, AF109907, AL133396, AC004232, AC002301, AJ003147, AP0000961, AC006071, AC005512, AL136018, AP000338, Z94721, AC006315, AC005913, AC002494, AC003080, AC007676, AC004383, AP000047, Z82201, AC004695, AC005822, AF111168, AF165175, AL034420, AL110502, U66061, AL031662, AC004776, AC007564, AP000216, AP000352, AB002059, AL035420, AC002470, AC000003, AC005666, AC007664, AC007214, Z82216, AL035073, X61109, AC005821, AL022328, AC005919, AC008179, AC004763, AC007537, AC004893, AC005838, Z93024, AC007076, U95742, AC007216, AL034554, U78104, Z77249, AF088219, AC008984, AL008708, AC007161, AL023755, AL121767, AC002070, AC005503, AC004650, AC003372, AC005694, AP000065, AP000115, AC006070, U58047, AC005994, AC004933, L24094, AL132641, AC018633, and AL022163. |  |  |  |  |  |
| R91783, AW449624, AL792255, AA632429, AA632442, and AA573692.  |  |  |  |  |  |
| R62551, and AL174377   |  |  |  |  |  |
| AA551398, AL690497, AL031577, AC005971, AF109907, AC007546, AC007386, AC006077, AC007773, AL031666, AL049843, AP000208, AP000130, U91321, AF196779, AC002300, AC007880, and AL034417.  |  |  |  |  |  |
| AW139719, AP11432, AL288208, H39195, R42796, AL093947, H40911, H23589, H46892, R42704, H40952, H46310, H52787, H52820, H41504, AW075323, and AW071240.   |  |  |  |  |  |
| R02571, AL032037, AA679303, AA642557, AA345400, AA551532, NS3352, NS8999, AA985662, F18098, AL007330, AA767276, AA703457, AL046094, N64205, AL479093, AL009174, AC006238, AC004662, AC006530, AC004491, AC005781, AC005740, AL049780, AC006597, AL049911, AC005856, AL109628, Y14768, AC004408, AP000505, AL030996, AC004003, AC005874, AF134471, AC002351, AC002375, AC004933, AF117829, AC004648, AL133599, AC000105, AL078611, AC005102, AC004232, AF129756, AL117344, AL031577, AC002302, AP001549, AC002301, Z99774, AL031733, Z15025, Z98036, AC005105, AL049759, AC006961, AC005899, AC005663, AC004821, U91322, Z79997, AP000338, AC004125, AP000216, AL003147, AC003103, AC004000, AL008718, AC005500, AC007225, AC002314, Z97200, AF126403, AC008372, AC004990, AL078460, AL109758, AL035088, AC007276, AL022330, AC002378, AC007227, and AL035089.  |  |  |  |  |  |
| HCUD57 526 734883 1 - 373 15 - 387   |  |  |  |  |  |
| HCUD23 527 953868 1 - 356 15 - 370   |  |  |  |  |  |
| HCUD38 528 850076 1 - 324 15 - 338   |  |  |  |  |  |
| HCUD47 529 861150 1 - 789 15 - 803   |  |  |  |  |  |
| HCUDF26 530 676949 1 - 436 15 - 450  |  |  |  |  |  |
| HCUDF33 531 577224 1 - 295 15 - 309  |  |  |  |  |  |

| HCUDF90 | 532 | 958449 | 1 - 459 | 15 - 473  |  |
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| HCUDM66 | 538 | 506522 | 1 - 367  | 15 - 381  | AC003964, Z83827, AL034548, AL031680, AC009223, AL132992, AB017652, Z97053, AL033392, Z96966, Z84479, AC005781, AC004645, AL109801, AC003002, AC007038, Z98744, AC005911, AL031390, Z801369, AP000477, AL035400, AL079295, AC020663, AC007551, AL133371, AC007650, AC006111, AC005390, AF095901, AC005923, AC004946, AC005002, AL031295, AF064865, AC005046, AC004222, U52111, AC006953, AL133353, AC006125, AC004789, AL080242, AF045555, AC005057, AC002119, AC005064, AL031848, AL132708, AC009247, AL021918, AL021368, AL109758, AC004010, AC004859, AL13709, AL13706, L13707, Z99495, AC007917, U18391, U57009, AF140763, Z98883, AC002306, AC004755, AC004403, AC000127, AC005355, AL034418, AF038458, AC000066, AB020859, AC005409, AL031657, AC004990, AC005150, AC007011, AJ010770, AC005274, Z77894, AC006403, AC006006, AC005552, U67230, AC006124, AL096761, AL023799, AB020871, AL0022143, AF000855, AC005243, Z98304, AC003037, AC005527, AF042090, Z97054, AC002055, AC004967, AB029343, AB023039, AC004195, AC004076, AL031223, L47234, Z84718, AC005210, AF091512, AL078462, AJ239318, AC004745, AP000509, AL096862, AC006539, AL031666, AC007030, AP000351, AC004662, AL121825, AL049709, AC004027, AL035653, AC002980, AC004051, AC009181, AC006374, AC005822, AC005245, AF196779, AL121823, AF165124, AL031054, AC007364, Z95114, AL080239, and AC005084. |
| HCUDN09 | 539 | 850101 | 1 - 456  | 15 - 470  | AI090115, AI168683, H99504, AI147670, AA232645, N73285, AA374707, AA380875, AW139567, AA886361, AI735132, and AI679526.   |
| HCUDN14 | 540 | 862119 | 1 - 400  | 15 - 414  | AL021368.   |
| HCUDP19 | 541 | 578721 | 1 - 345  | 15 - 359  | AC005755, AC005372, AL049780, and AC005081.   |
| HCUDP23 | 542 | 783051 | 1 - 444  | 15 - 458  | AA278441, AL263438, AI870837, AI886871, AW450567, M78087, AA887815, AI700532, W94450, R96854, and P98160.   |
| HCUDP27 | 543 | 725155 | 1 - 427  | 15 - 441  | AI538514.   |
| HCUDP82 | 544 | 578720 | 1 - 337  | 15 - 351  | AI970020.   |
| HCUDQ61 | 545 | 839959 | 1 - 318  | 15 - 332  | AW057640, AA410949, and AI394291.   |
| HCUDS61 | 546 | 578705 | 1 - 390  | 15 - 404  | AF039235, AI669256, AW245958, AF763048, AW245514, AW237088, AI093187, AI571378, AW296090, AI354976, AL680102, AW119180, AI140327, AA934553, AI201269, AA559846, AP991982, AA625161, AL203368, AA040597, AW268813, AW152391, AI243335, AI185996, AA315994, D80898, AI887841, AI902903, AA497000, AI312767, AA373939, AA358918, AA634307, U25751, AI916936, AF700879, AA918570, AA362530, AI671153, AI927665, AI738973, AW087508, AI824923, AI810550, AA359868, AW196382, AI867799, AI738423, D80899, AA954586, C01220, AA489585, F31194, AA361102, AI698559, D20015, W81431, AA928147, AI432152, T27188, AA040679, T19862, and T27189.   |
| HCUDT65 | 548 | 915742 | 1 - 1845 | 15 - 1859 |   |

|         |     |        |         |          |   |
|---------|-----|--------|---------|----------|---|
| HCUDW37 | 549 | 859268 | 1 - 895 | 15 - 909 |   |
| HCUDW74 | 550 | 576240 | 1 - 246 | 15 - 260 | Z84480, and AC005011.   |
| HCUDX05 | 551 | 951165 | 1 - 37  | 15 - 51  |   |
| HCUDX14 | 552 | 571370 | 1 - 307 | 15 - 321 | AC002477.   |
| HCUDZ25 | 553 | 678365 | 1 - 295 | 15 - 309 |   |
| HCUEA58 | 554 | 790029 | 1 - 303 | 15 - 317 | AL031729.   |
| HCUEA63 | 555 | 745183 | 1 - 354 | 15 - 368 | <p> AIR26761, AI355007, AI085719, AW338042, AI149478, AI650365, AI733856, AI742168,<br/> AA455483, AA297666, AA226153, AA481887, AI310343, AA410788, AI135108, AI216151,<br/> AW316969, AW744018, AI061313, AW156980, AW270771, AI829331, AI045027, AA555229,<br/> AA651632, AI053978, AI037910, AI620415, AA679625, AA228778, AA021429, AI4737309,<br/> AA503468, AI244127, AC003037, AI049776, AC005399, AI022316, AC007388, AC005015,<br/> AC005529, AC005274, AC004067, AI132777, U63731, L78833, AC007308,<br/> AI050318, AI021154, AI022323, Z82206, AI031767, AI031589, AC005280, AP00210,<br/> AP00132, AC005231, AC006312, AC016027, AC016830, Z93017, AC005081, AI049869,<br/> AFI11168, AC000159, AC005409, AC005913, AC007011, AC004755, AC004156, AC002310,<br/> AC005291, U62292, AI109628, AC008498, AI035417, AF196779, AC005340, AC009247,<br/> AI021808, AC005953, AC005043, AP000557, AC003043, AI133448, AI049692, AC003101,<br/> AD001502, AC004491, AI022318, AC005074, AI049539, AI096703, AC005971, Z98742,<br/> AP000098, AC006211, Z97056, AI021707, AC002302, AC007227, AC003007, AC005519,<br/> AC005722, AP000114, AC005821, AC004686, AC020663, AI117352, AP000502, AI109952,<br/> AC005800, AC004890, AC005881, AC007536, AC005632, AC005209, AI078477, Z93244,<br/> AI020995, U91323, AC005330, AI035420, AC003665, AC004000, U91326, AC004983,<br/> AC005412, AC004383, AC002544, AC005940, AI022476, AF134726, AC002375, AC009509,<br/> AI121652, AI096791, AI031846, AI035400, AP000556, AC004876, AC009516, AC005200,<br/> US2112, AP000514, AI049843, AI035587, AI121748, AC010170, AC004805, Z99128,<br/> AC004738, Z84469, AP000356, AC002316, AC009044, AC006023, AC007637, AC004526,<br/> AC007371, AC005943, Z83840, AF001549, Z85987, AC005921, AC004910, AC005484, Z85986,<br/> AC007999, AI008719, AP000553, AC006077, Z95152, AC004832, AC003663, AC002470,<br/> AC005089, AC002404, AC006121, AC007114, AC005261, AC004913, AC007664, AC005158,<br/> AI035422, AC002425, Z93023, AC004841, AI031657, AP000510, Z83844, AI034548,<br/> AF124523, AI133245, AI022165, AI049830, AC010205, AC000029, AC006509, AC002045,<br/> AI035419, AI031774, AC004785, AC002996, US2111, AC005740, AC009288, AC008018,<br/> AI049832, AI031295, AC004638, AI133163, AC005962, AC006449, Z84480, AC002070,<br/> AC004084, AC005069, AC004874, AC004771, U85195, U78027, AI096755, AI049829,<br/> AC005837, AC005300, Z99716, AC005520, AI133246, AC005049, AI020993, Z82244,<br/> AC006581, AI133244, AE000658, Z83820, AC004815, AC004099, AI109984, AC002550,<br/> AC006511, AC006271, AC003982, Z97876, AC005523, AC004583, AC006253, AC005088. </p> |

|         |     |        |         |          |  |
|---------|-----|--------|---------|----------|--|
| HCUEA72 | 556 | 713040 | 1 - 311 | 15 - 325 | AC004896, AC005220, AC006960, AP000248, Z84466, AC004895, AC000353, AC005544, and AL031291.<br>AW084919, H67179, T38440, AL708182, AL141130, AA386433, H52397, AL865087, R56848, AF566425, AW270183, AA721523, AA721530, AP962094, H61871, AA610433, AC0292003, T89901, AA746911, AA374797, AW419389, H61942, AL697242, AV407340, W02189, AA069631, AA568314, AA809635, AA224917, AL697239, R69037, AL266359, AT749355, H71678, AL066711, AA666046, AL686470, H73306, T97896, H07953, AL583468, AL538214, AA071151, AL079666, AL697235, AA214042, AW074613, AA084076, AA468486, N70449, H13612, H01327, AA329565, AA032001, AA715955, AA525253, AA706495, T55992, AA601216, AA054085, AW152178, T81513, AL133749, H81267, AL858889, AP215176, W37651, AA747234, AA572784, AA513884, AL062232, AL583466, N52410, AA613754, AA249239, AC004859, AC005335, AC005332, AL096701, AL022069, AC006064, AL096773, AC004686, AC005291, AF001550, AC005005, AL121603, AC007773, AC004999, AC007637, AL109758, AC002544, AL021391, AC016027, AL133500, AC016830, AC006241, AC005102, AL031284, AC000052, AC005971, AC004216, AL049709, AC004000, AC005747, AC005375, AC008372, AC002477, AB023048, AC003664, AC004448, AL117338, U91323, AL020997, AL133163, L78810, AC008012, AC006130, Z86690, AC005280, AL035398, AL049653, AF196969, AC004253, AC005736, AC005919, AF019413, AL024508, AC006441, AL008720, AC002059, AC009399, AL023807, Z84487, AC005015, AF111168, AC006509, AC006121, Z95152, AC004801, AC004134, AL034420, Z83843, AC009247, AC001228, AL049775, AF190465, AC004832, AC007298, AF001548, AC004810, AC002312, AC007325, AC004791, AC004106, AL035683, AL021707, AL031683, AC004672, M63796, AC002476, AC004938, AC007312, AL050307, AL031659, AL022238, AL050341, AP238093, AL022322, AP000511, AF196972, AC005057, AC009464, AF217403, AC003687, AC000394, AL031657, AC004812, AP000032, AC006023, AC004019, AC005808, AL049636, AC002351, U07563, AL008707, AL079304, AC005288, AL031311, AL121658, AL031005, AL034429, AC003108, AF000089, AP000142, AL022316, AC007364, AC006539, AC004887, Z83826, AC002094, AC005049, AC000360, AL035400, AC002126, AC004526, AC004033, AL049766, AC005037, AC006302, AC00491, AD001527, Z99128, D87675, Z98304, AC006285, AC002996, Z84469, AF048729, AC003101, AL109627, AL049911, AL008719, AC006947, AC007308, Z93244, AC003025, AC006455, AC000134, AC004878, U62317, AC005180, AC004985, AF001549, AC006552, Z83844, AC006480, AF111169, AC008273, AF027550, Z83856, AF0050318, AC007763, AC006312, AL079342, AP009961, AC000120, AC005800, AC005089, AC007878, AC005229, AC004996, AC004223, AC003663, AC007201, AC006344, AL031228, AL133245, AF139813, AF205588, AC004821, Z97053, AC000240, AF047825, AC004655, U91326, U80460, AC005520, Z98752, AF11170, AC003982, AF030453, AC004510, Z96258, AC004222, AC005839, AP000502, AC005632, AF196779, AC003690, AC004386, AP000104, U95090, AC002306, AL096767, |
|---------|-----|--------|---------|----------|--|

|         |     |        |         |   |
|---------|-----|--------|---------|---|
|         |     |        |         | AC006530, AL031774, D63507, AC004131, AC002302, AC007056, AF108083, AC004962, AF086394, AL031230, AL117337, AC005670, AL035413, AL031447, AF024533, AC002044, AC007566, AJ246003, Z84480, AC007934, AC006026, AC005071, AL031427, AC002565, AC009248, AL109657, AL121653, AL023575, AC005399, and AC003103.   |
| HCUER62 | 557 | 579058 | 1 - 364 | 15 - 378  |
| HCUER66 | 558 | 935769 | 1 - 94  | 15 - 108  |
| HCUER78 | 559 | 850066 | 1 - 319 | 15 - 333  |
|         |     |        |         | H81012, H86221, AA018923, R64467, M87891, U14684, AL034429, AC004938, AC007376, AC004188, AC006480, U14701, AL022316, AC002477, AC005527, AC002416, Y14768, AC005620, AC005197, AC005907, AC000052, AL020993, AC002375, AC007055, AC006538, AP000505, AP000516, AC007707, U91629, AC004797, AC006263, AC005488, AC005914, Z82201, AC005529, AC005911, AC005410, AC007666, AC004019, AF111168, AF129756, AC005399, AC006449, AL139054, AL035387, AC005632, AP000512, AC005746, AC002310, Z74739, AC006511, AL023803, AC005067, AF001975, AC005753, AC004678, AL022237, AC002303, AL034420, AL021578, AL133448, AP001065, AL031311, AF033356, AC003043, AP000065, AC005971, AP000354, AF045555, AC004859, AC002551, AL118497, AC005003, AF134726, AC000405, AF165926, AL035086, AC005841, AL133163, AL050321, AL035405, U12387, AC007686, AC008015, AC005722, Z95114, AB014087, AL049766, AL020997, AC001447, AF001549, AL096677, AC006211, AC005777, AC005288, AL050308, AP000555, AC005409, AC005088, AC002104, AC004491, Z97055, AC007011, AC006077, AC002470, AF111169, M87898, AC004686, AC000025, AL031985, AL034423, AC006441, AL121603, AC002492, AC004190, AC005037, Z98941, AC003663, AC004671, AP000503, AC004659, AC005682, AL008718, AF037338, AL031662, AC005619, Z81365, AL022326, L78833, AC006064, AC005954, Z97876, AC006130, and AC005486. |
| HCUED04 | 560 | 615410 | 1 - 324 | 15 - 338  |
| HCUED66 | 561 | 576573 | 1 - 449 | 15 - 463  |
| HCUED04 | 562 | 653118 | 1 - 290 | 15 - 304  |
| HCUED29 | 563 | 578709 | 1 - 240 | 15 - 254  |
|         |     |        |         | Z94044, AC005480, AC006388, and AL022316.   |
|         |     |        |         | AA305339, AL121572, and AL022341.   |
|         |     |        |         | AW297855, AA932284, AI911033, AI540093, AW105017, AA829228, AA814442, and AA768919.   |
| HCUER41 | 564 | 578715 | 1 - 235 | 15 - 249  |
| HCUER63 | 565 | 745184 | 1 - 100 | 15 - 114  |
| HCUER66 | 566 | 578702 | 1 - 207 | 15 - 221  |
|         |     |        |         | AP000096, and AP000240.   |
|         |     |        |         | F37223, AW419118, F31799, AI446638, F23274, H64560, AI791610, AI867044, AW023672, AA381762, AA299115, AA548087, AI223616, AI287485, AW078552, AI053465, AI918421, AA399158, C06471, AI679713, H04867, AW130254, AA086236, AA469451, AW341903, AH39269, AI151261, N25303, AW129694, AI635274, AI679139, AI338426, AW302013, AI240891, AI152111, AI285696, M77950, AA913549, AW057776, AL044688, AA384489, AL138421, AI565873, AG09974, AG098441, T47280, N58729, AA229444, AA913114, AA302732, AI939465, AA527716, AW130535, N20066, AW085801, AI110688,   |

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| AA230143, A1469968, AW273469, AF753365, AA573540, N35896, A1888752, A1821044, AW192199, H47540, A1722239, A1267356, A1075744, AA629702, A1536625, AA329321, H08791, A1821467, A1754023, W90237, R94721, A1124660, A1370270, H71349, A4328390, AA347835, AW085991, H86579, A1932884, A1207584, AA721577, A1570261, AA947837, AA018923, AA012829, AW368401, AA323085, R71981, AA720664, AW131213, A1811460, AA384039, A1539776, AA078483, A1267450, A1201668, A1979796, H96823, AW175641, AW192518, AC004935, A1096775, AC006571, A1022330, U80017, A1171694, U78308, AC004032, Z99128, AC0000070, AP0000080, AF049895, A1096774, AC005740, AC004582, AP000134, AF000212, AP000030, U40369, AP000356, AC006001, D87675, AC002451, AF007842, AF070717, A1009173, AC020663, AC002350, U76377, A10233539, A1035411, U02068, A1031005, AP000320, AC004617, AP000251, A1132712, AC005485, A1034430, A1096755, A1049874, AC004895, A1109985, Z72521, AC002369, AC006328, AC007681, AC005911, AC000003, Z94277, AC006561, A1022237, A1135744, AC004258, AC004773, AC006146, M87914, AC005291, AC007543, A1035681, AP000120, AP000167, AP000052, A1034417, AC005215, A1023577, AC005150, A1022395, AC007919, AC005007, AC007327, AP00502, AF064857, Z93241, AC005040, AC002524, AC006312, AC006062, U73168, AC007227, AP003553, A1022323, AC004383, AC004884, A1121877, AC004384, AC006120, Z98255, AF095725, AC000039, AC005771, AC005759, AC003102, AC007381, A1096707, AC002126, AC007565, AC007501, AC007632, AC002985, AP000142, AF117829, AP000113, U60274, AC007314, AC006538, AP000090, AF134726, Z83845, AC005516, U07000, Z98050, AC004841, Z95115, AC002565, A1020993, AC008125, AC002564, A1121653, AC003109, AF111168, AC005703, A1049712, AC006544, AC005695, D00591, AC002504, AC005264, AC005209, AC005102, AC005180, Z99943, AC004511, AC004024, A1022334, AC004003, A1035410, AC012599, Y14768, AC005993, AC004152, AC016025, AC007230, AC007050, AC005595, AC004813, A1003147, AC006251, AC005788, AC005200, AC005245, A1049576, A1031846, A1034402, A1022320, AC005280, A1049557, A1078639, AC006543, AC005875, AC007387, AC007695, AC002056, AC004462, AC008134, Z75888, AC005841, AF003627, AP000143, AF129756, Z83844, AC002525, AC005994, AC005046, AC005914, AC005251, AC007966, A1022318, A1035387, AC009946, Z86061, AC005696, Z80232, A1035659, U47924, AC003041, A1022578, AC004584, AC006013, AC002314, AC007557, A1035415, AC004517, AC005003, Z99497, AC004491, AC004453, AF123462, AP000031, AC004678, A1021453, AF053356, Z83826, AC004745, Z93942, AC006455, AC005829, AC000379, AC004650, A1031709, AC005670, A1022328, A1035450, Z75887, A117354, AC005520, AC004230, Z68756, A1021808, AC006515, A1021368, A1031584, AC007207, A1117256, AC007666, AC004838, AC007845, A1021395, AC007308, AC007308, AC007129, AC002470, AP000966, AF079797, AC005328, AC005909, Z83851, AC008062, Y11873, A1109628, AC003688, AC005031, A1017652, Z93783, L77569, AC008273, AC007878, and |  |  |  |
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| HCUEB83 | 567 | 578703 | 1 - 406 | 15 - 420 | AC006948   |
|---------|-----|--------|---------|----------|--|
|         |     |        |         |          | <p>             AI801482, AA847499, AA493621, AI281697, AA649642, AI783494, AA502711, AI358501, AI613280, AI192631, AI138421, AA368936, AA846935, AW407578, AA713891, AW270635, AI282511, AI338350, AA491862, AI281881, AA573543, AW338086, AA467820, AW201583, AI360377, M86143, AA744018, AI537955, AI903462, AA526758, AW028403, AW406447, AW408047, AA469451, AI919265, AI824562, AA526536, AA658362, AI635458, AI281903, AA491650, AI613390, AW264934, AI457397, AI921296, AA507824, AI473475, AA468244, AA468505, AI610607, AH69172, AI570212, W38404, AW129694, AI133333, AI110770, AI093122, AI745325, AI133164, AA405493, AA526779, AG629874, AA523838, AI832016, AA743716, AA577959, AA516020, AI676218, AW130535, AW148792, AA492081, AA578481, AW084252, AI379719, AV0044351, AW085740, AA134959, AI287528, AA483273, AI031281, AC006160, AC005324, X54180, X55931, AC004813, AC006241, LA7234, Z82079, AC003007, AI022313, AP000031, AI035587, AC002996, AC005730, AC004605, AC005763, AC000070, AI021937, AC005632, AI021939, AF123462, AL009179, AC010200, AL022329, AC006130, U07562, X54175, AC004755, AC005212, AC003965, AC006026, AI109984, AC004019, AF196970, AC004492, AC004858, AI031432, AP000349, AC004671, AC007845, AI133448, AC003108, AC004596, AF196779, Z92845, AP000514, AC007193, AI031428, AC006275, AD000092, AP000359, AC005696, AC005527, M87919, AC004686, AF109907, AC005175, AP000135, AC006139, AC005183, AC008079, Z81313, AC002045, AC005901, AC005088, AC006058, AC005837, AP000117, AC002368, U47924, AC000052, AF165175, AC007666, AP000326, AC006040, AC006487, Z97630, AI031255, AI035411, AI121748, AC004984, Z69890, AC004152, AC006449, AC005102, AC008044, AF010238, AC002119, AP000503, AF039401, AC005529, Z83844, AP000034, AP000169, AP000122, Z84476, AC002385, AI034418, AC005531, AC007617, AF079295, AC003029, AC005988, Z93244, AC006001, AC004263, Z98051, AC002470, AI121778, Z98044, AC006205, AC004881, AC004156, AF165141, AC007919, AF088219, AF001549, AC002984, AC006251, AC003070, AC003665, AC002476, AC007324, AL049759, AC007766, AC003098, AC005410, AL049795, AP000244, AC002395, AC004827, AC005089, AC007055, AC004815, AB073049, AF111167, AI1008635, AC004765, AC005839, AC007066, AC005237, AC004186, AI035086, AI035415, AF134726, AC006327, AC006285, AC003966, AC006960, AL079340, AC004913, U78027, AC005913, AC008101, AC005011, AI121769, AL049709, AC004228, AC005914, AI1008583, AC004998, Z69838, AI031295, AC006312, AC006312, AC002301, AL080243, AC012627, AH020871, AP000493, AC005231, Z97056, AC011934, AC010170, AL078474, AI023580, AL022377, AC005057, AP000123, AP000213, AC002365, AC008055, AP000194, AI035422, AC005296, AC005412, AC004972, AF039907, AF038667, AI031602, AC006367, AI031283, AC005409, AI034421, AP000512, AF165142, Z84480, AC002316, AF053356, AC005756, AC003079, AC005778, AC005071, AC007262, Z98742, M84472, AC005332, Z84484, AC009044, AC007967,           </p> |

|         |     |        |         |          |   |
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| HCUE90  | 568 | 578714 | 1 - 199 | 15 - 213 | AL133485, AL022318, AF024533, AL049776, AC005037, AC002312, AC005924, AC007298, AC005288, AC004234, and 293241.   |
| HCUE93  | 569 | 784414 | 1 - 113 | 15 - 127 | AC005913  |
| HCUE90  | 570 | 578745 | 1 - 141 | 15 - 155 | AF024533, AF030453, and AC005088.   |
| HCUE155 | 571 | 959552 | 1 - 110 | 15 - 124 |   |
| HCUE169 | 572 | 757657 | 1 - 526 | 15 - 540 |   |
| HCUEK37 | 573 | 964869 | 1 - 331 | 15 - 345 |   |
| HCUE128 | 574 | 706456 | 1 - 289 | 15 - 303 | AA782338.   |
|         |     |        |         |          | AI097211, AI446336, R92902, AI539685, AA775205, AI438967, AC007021, AC007564, U95739, AI049576, AC006077, AC006312, Z85987, AC005821, AC003663, AC006323, U95743, AC003026, AC011331, AF001549, AF029308, AC003037, AL136453, AC006965, AC005011, AC005764, AL023807, AL096774, AC005740, and AC005886.   |
| HCUE191 | 575 | 576568 | 1 - 119 | 15 - 133 |   |
| HCUEM23 | 576 | 576379 | 1 - 373 | 15 - 387 | AC006531.   |
| HCUEM35 | 577 | 861545 | 1 - 307 | 15 - 321 |   |
| HCUEM62 | 578 | 576575 | 1 - 248 | 15 - 262 |   |
| HCUEM34 | 579 | 706452 | 1 - 333 | 15 - 347 |   |
| HCUEM58 | 580 | 738225 | 1 - 453 | 15 - 467 |   |
| HCUEO17 | 581 | 932118 | 1 - 252 | 15 - 266 |   |
| HCUEO30 | 582 | 769203 | 1 - 274 | 15 - 288 | AL039309, AA985145, AA558404, N52501, AI884861, AA657910, T55707, AA904211, H48017, AI431513, AI049504, AW341882, AA486819, H86579, AA774006, AA662431, AI800343, AA584756, T02817, H47295, AW089016, AA527109, AA502813, AA018923, AA012829, AI583291, AI816136, AW081503, AI471455, AW407388, AA053463, AW117723, AI826857, AW392414, AI251576, AI687343, AI306232, AW274191, W63553, AI583466, AI201668, T59930, R48980, AI306717, AI811647, AA429481, N22395, AA368329, AA599749, AA577855, AI031759, AA827383, T74524, AA214109, AI628859, AW019964, AA434078, W92433, AI801824, AA339789, H86133, AA347867, AW301855, AA767257, AA548692, AW148886, AI697383, AI065031, AW029626, AI888050, AW117704, AI417586, AI300818, AL041924, AI310992, AA745628, AI267356, AA278496, AA287502, AI267459, AI369925, AA535756, AI434365, AA573000, AA374797, R02063, AW009653, AI831172, AA993165, N59744, H53284, AI279417, H73306, AI002863, AI869797, H54252, AL041352, AI049680, AA302978, H47296, AA916794, R84528, AA947265, AW078509, AW190277, AA486820, AI340151, AA364073, AA374523, R39627, AI872461, AA230146, AA733171, AW162303, AW084173, AA878407, AI459866, AW162047, AA295899, AI277318, AI860535, AW161786, AW117915, T51436, AI873627, AC002128, AC006356, AC004685, AL050338, AC004554, AC005518, AC006512, AC006023, AC008101, AC008079, AC007567, AC005722, AL031985. |



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|         |     |        |         | AL022329, AF111168, L48038, AC005516, U94776, Z83822, Z82190, AC000134, AL078621, AC005214, AP000566, AL031284, AC002301, AL031657, AC006026, AL078593, AC000695, AC002091, AC005906, L78833, AL049829, AC005747, AL0213799, AL121754, Z82215, AC007435, AC007676, AC003692, AC006044, AC004878, AF196970, AL034420, AL022326, AC004033, AL020995, AB011399, AP000355, AC007386, AC007731, AC005500, AL022476, AL133500, AB016897, AL121923, AC006344, AF024534, AF024533, AL109827, AL050321, AC005086, AC007225, AC005355, AC005049, AC004156, AC002070, AL109956, AL0088718, AC018633, AL050348, AP000557, AL031255, AC000026, AC002563, AC004134, AC006958, AL022336, AF053356, AP000556, AP000359, AC005740, AC005585, AB023048, AC001728, AC002059, AL050318, AL022577, AL022577, AL117351, AC004139, AC005005, AF068862, AC004031, AF190641, AP000091, AF107257, AP000236, AL121652, AL117354, AF047825, AL109983, AC007444, AC004612, AC002504, AL096818, AP000690, AL021878, AP000689, AC007279, AC007227, AC005874, AF134471, AC004381, Z84466, U92032, AP000558, AC004034, AC004234, AL031295, AC007934, AC008080, Z85996, AL049869, AC006312, AC004099, AC004217, AL109847, AC005192, AB018295, AL021707, AC007551, Z96074, AL022721, AL121603, AC007878, Z98941, Z97333, Z97334, U62292, AD000812, Z49235, D86995, AC007792, AC002126, AL035659, AC005231, AC007324, Z93020, AL049759, Z83838, AC002351, AP000555, AC016027, AP000501, AC016830, AC005015, U87924, AC004943, AL034549, AL035469, Z68873, AC006323, AC002407, AP000952, AC004148, AL022718, AC000004, AC007556, AC008041, AL136295, AC006530, AL049830, AC004150, AC004814, AC006210, AC006406, AC002524, AL035415, AC009247, AC007510, AC004832, AL136501, AC006538, AP000510, Z84487, AC004012, AD000684, AP000433, AP000067, AC005004, AF196971, AC002551, AC005666, AL133448, AF001550, Z76735, AL022165, Z82189, AC006211, AC006468, AL021939, AF049895, AL031289, AC007228, AB023050, AL096701, AC009516, AC004771, AL078581, AL031588, AL137191, AC007057, AL049872, Y10196, AL096755, AL022318, AL049569, L29766, AC000063, AC005300, AC006409, AL078583, AC004953, AP001053, AC005696, AC006946, AC006359, AL050341, AC005971, AC008170, AC002530, U51560, AC002314, AC005619, Z80896, AL024474, AL031275, Z95113, AL049843, AL035407, AC004900, Z97832, AC005730, and AC002302. |
| HCUE031 | 583 | 576551 | 1 - 229 | 15 - 243  |
| HCUE041 | 584 | 576524 | 1 - 447 | 15 - 461  |
| HCUE062 | 585 | 578713 | 1 - 387 | 15 - 401  |
| HCUE079 | 586 | 850090 | 1 - 330 | 15 - 344  |
|         |     |        |         | AA129273, AA129373, AF761842, F20339, AW291115, AA485396, AA835966, AW079768, AL287824, AW243878, F32537, AF190297, AL197911, AL828574, AA830626, AL758715, AA464646, AL560298, AA029936, W31910, AA936135, AA810103, AW087812, AL801167, AL559162, AW087203, AL021407, AL137300, AF019767, AL133104, AC002480, AF030635, and L78810.   |

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| HCUEP01 | 587 | 913675 | 1 - 449 | 15 - 463 | AC004967, AC005206, AC005667, and AC005519.  |
| HCUEQ37 | 588 | 881486 | 1 - 349 | 15 - 363 | AL008718.  |
| HCUEQ56 | 589 | 751410 | 1 - 442 | 15 - 456 | AW452694, and AA977635.  |
| HCUES29 | 590 | 579033 | 1 - 406 | 15 - 420 |  |
| HCUES34 | 591 | 850096 | 1 - 406 | 15 - 420 | AA084609, A1312309, A1678287, AW151848, AA757621, AL037927, A1962030, A1306717, AW084173, A1567076, A1948920, AA032389, AW402784, A1065031, A1042753, AW238495, A1186233, AA823827, AA949630, AA584655, AA747375, AA584756, A1689135, AW192179, H29914, T67090, A1303008, H40878, AW328027, AA551548, A1078581, AC007199, AC005821, AC005736, AC005081, AC005722, AC007285, AC005520, AL049301, AL049538, U80017, AC002477, AC020663, AL031311, AL021453, AC005015, Z69921, A12129756, AC000120, AC002314, AC006530, Z69653, AP000065, AL035400, AC005519, AP000512, AB001523, AL117258, AF207550, Z98742, Z99128, AC007225, AC004838, AC006146, AC003696, AC007386, AL133245, AP000121, AC007686, AP000045, AC007363, AC000041, AC002115, Z86990, AP000704, AC002350, AC005102, AL049697, AC005057, AC007537, AF064861, AC002306, AC005280, AC004560, AC003957, AL031602, Z98941, AC005899, AC005837, AC005488, AC002059, AC003353, AC004622, U91326, AC004531, Z83856, AP000688, AF111167, AC004967, AL022316, AC002544, AC005746, AC004841, AC000118, AF001548, AC005682, AL049758, AC005220, AC003041, Z93930, AC007327, AC006312, AC004796, Z93244, AC004685, AC005829, AB003151, L44140, AC004962, AC004659, AC005562, AC007868, AC004408, AL096701, AC005049, AC004019, AC005500, AL023553, AB014079, AF165926, AL078463, AC009509, AC004477, X64467, AC006026, U63721, AC006120, L77570, AC004263, AL009179, Z95152, AF111168, AC004491, AC007240, AC006023, AP033356, AL022326, Z97054, AC007731, AC001231, AC005484, AC003982, AC005094, AC004686, Z83844, AP001038, AC000159, AC007367, AL031985, AC005412, AL049843, AC006338, AL021917, AF045555, AC006077, AL031295, AC003029, AC004383, AC002039, Z81364, AP000008, AC002492, AP000208, AP000130, AL096791, AC004148, AP003355, AF196969, AC002312, AL031662, AP000556, AL139054, AC007637, AC006111, AC005387, AC005355, AC012384, AC005288, AL021546, AC006254, AC007536, AC005031, AL035420, AL022165, AC004655, AC004583, AC004876, AC005529, AP000044, AL049776, AF003626, AF196971, Z68284, AC007314, AC006130, AL034420, AP000112, AP000504, AC002299, U62292, AL109984, AC006285, AC005952, Z84466, AC006141, AL049569, AC004675, AL009181, AC005237, AC005730, AC005772, AL031282, Z83826, AP000558, AC007384, AL031587, AC007387, AL050341, AL135744, AC008372, AC006011, AC005618, AP000113, AC000026, AF196970, AC002094, AC006014, AC007226, AC002395, U63630, AF001549, AP000692, AC006441, AC004859, Z97056, AL080243, U91321, AC005632, AF006501, AC006101, AF134726, AC005212, AC002316, AC004755, AD001527, AL109827, AC005756, Z95116, AC006947, AL022324, AC006449, AP000248, D87675, AF038458, AC004941, AC002097. |

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|         |     |        |          | AC002369, AL035086, AC005781, AP000555, AL121603, AL021707, AC007283, AC006344, AL133243, AC007263, AC005527, and AC007229.  |
|         |     |        |          | AC004821.  |
| HCUE593 | 592 | 576498 | 1 - 415  | AW292137, AL039500, AL248007, AL078021, AL750999, AL476735, and Z95437.  |
| HCUE113 | 593 | 657258 | 1 - 160  | AA353854, AC004659, AC004771, AC005914, AC005245, and AC007182.  |
| HCUE127 | 594 | 306339 | 1 - 167  | AC007281.  |
| HCUE110 | 595 | 964857 | 1 - 269  |  |
| HCUE020 | 596 | 970780 | 1 - 274  |  |
| HCUEV08 | 597 | 959670 | 1 - 340  |  |
| HCUEV17 | 598 | 905316 | 1 - 1428 | Z95116.  |
|         |     |        |          | AA585439, Z28355, Z30131, AL525556, AL535639, AA585101, AL541374, AA585453, AL557731, AL547039, AL525431, D80253, AL541365, AL045817, AL525306, AL041142, AL041238, AL041133, AL047183, AL040322, AL041131, AL046330, AL041051, AL041292, AL040119, AL047036, AL047170, AL047057, AL047219, AL041227, AL040463, AL039961, AL040625, AL043612, AL041197, AL040155, AL041346, AL040529, AL041096, AL047012, AL041358, AL041277, AL041163, AL041098, AL040621, AL040353, AL041324, AL040464, AL044162, AL041086, AL043496, AL041296, AL041233, AL540967, AL040510, AL041159, AL045725, AL041140, AL546999, AL040193, T11028, AL043467, AL044186, AL041278, AL040437, AL040091, AL040128, AL040168, AL040553, AL040255, AL040285, AL040342, AL040332, AL040617, AL045684, D61254, AL040745, AL040370, AL043677, AL046442, R29445, AL040149, AL040839, AL041752, AL043775, AL044165, AL043492, AL041602, AL045920, AL038838, AL546945, AL044074, AL041635, AL045990, AL040253, AL040458, AL044199, AL044187, AL040090, AL040263, AL040294, AL040329, AL040082, AL044272, AL041186, AL040148, AL041730, AL041523, AL043627, AL041374, AL040052, AL040385, AL043337, AL541523, AL039338, AL042135, AL044064, AL038983, AL039316, AL043923, AL043814, AL043848, AL041459, AL043570, AL041577, AL044201, AL044258, AL046850, T23985, AL038532, AL040768, AL037727, AL526194, AL046994, AL040414, AL040571, AL040576, AL046914, AL142134, AL044573, AL044274, AL079878, AL049018, AL040444, AL045857, AL039744, R28735, AL038822, AL045671, AL536138, AL040238, AL046327, AL041168, AL049069, AL043444, AL040075, AL557262, AL541514, AL041246, AL040472, AL041347, AL541535, AL041955, AL038761, T23957, AL080031, T41289, AL045989, AL56967, AL546828, AA589476, R29177, AL044529, AL525316, AL557787, AL526073, D51250, AL046147, T23888, D80219, AL546891, AL546855, AL039643, AL541508, C16305, AL525320, AL042096, AL526140, D59787, AL037436, AA585434, AL541510, D80043, AL039360, AL037435, C16300, AL039924, D80227, AL045794, AL535983, AL044125, AA585356, AA174170, D57491, AL079852, AL541307, D80240, AL535660, AL557799, AA546875, AA585407, AL541017, AL043441, AL039150, AL557807, AL541205, AL038821, AL039085, D80134, AL043445, AL541534, AL541509, AL045211, AL039156, D51423, D55233, AL557238, T24112, T24119, AL039564, AL039538, T11051, AL039108, AL039678, AL039837, AL038837, AL039625, |

|         |     |        |         |          |  |
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| HCUEV65 | 599 | 750364 | 1 - 393 | 15 - 407 | <p> AL019648, AL039629, AL037726, AL038531, AL039109, AL040992, AL039128, AL044047,<br/> AL039386, AL036973, AL045337, A49045, AR062871, AR054109, I44516, AR035224, A94046,<br/> A94054, AR033807, AR068508, AR068550, AR068559, A23373, AR068551, I58323,<br/> I58323, I91969, A91752, I92041, A92081, A92080, A92077, A92078, A92079, I07209,<br/> I07249, A63954, AR009152, AR017907, AR062872, A20702, A20700, A43189,<br/> A43188, A84772, A84776, A84773, A84775, A84774, AR067731, AR067732, A58522, A91750,<br/> I05430, I05393, A10617, AR028792, A01324, A01323, AR034783, I63120, AR037733,<br/> AR064322, AR064323, AR064320, AR064321, A94048, A94061, I85513, A70359, A32110,<br/> A83642, A83643, AR018924, AR018923, A48774, A48775, AR000096, AR015960, AR015961,<br/> AR000007, AR051652, A92666, A92668, I49890, A92667, A92665, AR019094, AR028791,<br/> AR028793, AR003585, A18053, A75888, I70384, A18050, A85308, AR007512, A91754, A44171,<br/> A63067, A51047, A63064, A63072, A49700, AR031375, AR068507, I58669, A58521,<br/> A60213, A23334, A60207, A60208, A60111, A23633, I06859, I66487, A02712, A95051,<br/> AR043601, I84554, I84553, I13740, A35536, A35537, I13349, I60241, A02145, I60242, A02135,<br/> A02136, A04663, A04664, A02710, E12615, AR035193, A92133, A07700, A13392, A13393,<br/> I66498, I66497, I66496, I66486, AR027100, I28266, I21869, A70040, A10361, AR031374, I08051,<br/> AR038066, A95117, I19525, M28262, A91965, U87250, AR051957, I66494, I66495, AR035975,<br/> AR035977, AR067734, I48927, A25909, AF082186, A1244004, A1244005, A1244003, AR038855,<br/> A98767, A93963, A93964, X68127, A1243486, AR038762, AR051651, S78798, A98420, A98423,<br/> A98432, A98436, A98417, A98427, AR035974, AR035976, AR035978, A85395, A85476,<br/> Y16359, D78345, AR025207, AR037157, I18371, I44681, A67220, AR008430, AR006482,<br/> A85477, A85396, X83365, AR016495, D34614, A86792, A93936, A1244007, A93016, A58524,<br/> A58523, I15717, I15718, E03627, A60212, A60209, A60210, A60211, A77094, A77095, A81878,<br/> A64973, I08396, I62368, I00682, A11623, E00609, A11624, A11178, E01007, I08395, X55486,<br/> I03331, E14304, AR031488, I13521, I52048, A27396, I44531, E16678, A82653, E16636, A90655,<br/> I18895, A24783, A24782, A27169, I09267, I09270, and I09268.<br/> AA531044, AA536624, I884258, A1636734, A1870453, AA508036, AA525293, AA469327,<br/> AA877992, AA593471, A1918419, A16009972, A1305258, T05834, T40388, AW192330, A1623563,<br/> AV089016, A1270476, AA564671, R82650, AA493789, AA947369, A1275183, AV162227,<br/> AT750125, AA502207, AW102811, A1926102, AA482953, AA366601, A1306717, AA601728,<br/> A1521525, AA381762, AA581247, H71738, T95676, A1915293, A1587467, AA613164,<br/> AA779783, A1119247, R92629, A1524540, AA084609, F35097, AA525331, A1537368, A1280535,<br/> AA595554, A1580707, A1689019, AA228778, AW020150, AA568980, C14480, T54464,<br/> A1753365, AA516040, AC007308, AC002470, AC007546, AC000041, AC007686, Z84469,<br/> AD000812, AP001053, AC004491, AC003663, AC004817, AP000702, AC005225, AC007041,<br/> AF001549, A113382, AF024534, Z98200, A1031257, AC002477, AC005736, AC004991, </p> |
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| HCUEV82 | 600 | 881370 | 1 - 224 | 15 - 238 |   |
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|         |     |        |         |          | <p>Z99128, AC005924, AC005694, AC006165, AC005037, AL021546, Z995116, AC005020, AP000141, AC007938, AC002126, AC002375, AC007057, AF003587, AC0007731, AL040872, AC005102, AC007298, AF060368, AC005666, AC004859, AC003043, AC007071, AC005500, AC005911, AL035072, AF207550, AL034343, AL049764, AC005325, AL121603, AL049694, AP000665, AF053356, AC005971, AL031985, AC006958, AL109801, AL049757, AL049760, AC002350, AC004985, AC005086, AC002507, AB003151, AC006211, AC005821, AC002115, AC005081, AC002996, AC004953, AL049795, AC006088, AL117694, AL078463, AC004805, AL109628, AC007314, Z95114, AL031432, AB023051, AL049869, AF000300, AC004477, AC002316, AC000985, AC005206, AL035249, Z81314, AC009510, AC002550, AC005175, AC004560, Z94802, AC004777, AL109963, AC007327, AC005484, AC004804, AFI65926, AC004551, AC004551, Z82217, AC006501, AC002400, AC004883, AC002990, AC005005, AC006111, AC005585, AFI96779, AC004079, AC004033, AC005412, AC007226, Z83822, AL09181, Z98257, AC007993, AC007227, AC005752, AC005921, AF038458, AC002425, U80017, AC002094, AC002300, AC004217, AL022238, AC004815, AC018633, AL109952, AL034429, AL049631, AC007382, Z97352, AC004549, AL031777, AC009464, AC005057, U95090, AC004890, AC007917, AL117354, AF001550, AFI11169, AC005667, AC004778, AC004796, AC005914, AC004099, AC007690, Z98752, AC003029, AC006312, AP000032, AL008718, AL031659, AL031680, AC004386, AL096701, AC007199, AC008038, AC004167, AC004922, AP000045, AP000113, AP000116, AL021578, AC003101, AC002544, AL031984, U78027, AC005011, AC005274, AL049748, L23859, AC005740, AP000512, AC006023, AL122020, AL021155, AL035683, AC004212, AP000311, AC004156, AC005722, Z85986, AC005529, AL031594, AL049643, AC004616, AC005330, AC005305, AC005907, AC004967, AC002119, AC005355, AC006449, AC005913, AC005332, AL133353, AL049843, AC019014, AC005328, AC005071, AC004000, AC005058, AD000092, AC006599, AC005377, AL078638, AC006011, AC004526, Z93930, D87675, AC005783, AL022302, AC004876, AC006237, AL049709, AC006276, AP000143, AP000047, AC004743, AC007225, L78833, AC004263, and AL035422.</p> <p>AA348602, AF183359, AF198133, AL089178, AA553900, AL042987, L78032, AL809300, AA857812, AL038324, AL241637, AF167649, AF628922, AA179940, AA657416, AA655005, AA021139, AL109943, AW438946, AA558366, AA346861, AL174127, AA831426, AL090377, AA594719, AL0484892, AL1188049, AL192465, AL347478, W76645, AA326542, AA569065, AFI754421, R67701, AA683091, AA350406, R93854, AA215585, AA326452, AW264393, AA047849, AA808631, N47855, AW327852, AA557911, AL803741, AA572921, AL923052, NS2323, AA297443, AC002429, AC005907, AL031311, AC005527, AL049636, AC003029, AC004584, AC000035, AC004966, Z85987, AC005329, AC005535, AC005936, AC004876, AC002312, AC000025, U82083, AL049872, AC004910, AL031005, Z94802, AC005057, AD000092, AC004841, D87675, AC004953, AC006487, AC004056, U10634, AL031295.</p> |

|          |     |        |         |          |   |
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| HCUEW/19 | 601 | 576513 | 1 - 344 | 15 - 358 | AL801600, AW193265, AL041368, AL350211, T06828, AA553465, AW104748, AL625244, AL688846, AA652057, AA649642, AL284640, AA831527, AA513972, AL918421, AA503258, AA669251, AW301350, AW303196, AW274349, AA346458, AL367975, T10617, AW193432, AW236342, AL580652, AL367497, F18974, AL345654, AA719805, AL708009, AL298710, AL282832, AL434695, AL355206, AL610159, AA501600, AL281697, AL270117, AL446464, AW129001, AL634384, AL287651, AA228420, AW406659, AA688036, AA594145, AA347927, AA347930, AW088058, AL872227, AA079515, AA984708, AA719808, AL341664, AL041690, AL69172, AA493206, AA251117, AA649705, T71030, AA557879, AL886629, AL805679, AW021747, AL696962, AL266133, F29702, AA664015, AL044940, AA745582, AA551503, AA368936, AW072587, F19012, AL474772, AA367986, AA568778, AL046409, AA824655, AA824654, AW439558, AL71481, AL002834, AA252763, AL138263, T15977, AL431303, AW276827, AA515224, F36273, AL613280, AL340453, AL041412, AL565582, AL291124, AW062724, AL802526, AL160117, AW238278, AA53926, F33511, AA100599, AL282336, U51696, AL291268, AW338086, AA302963, AW339568, AL375710, AA723017, U18396, X54176, U51997, U57004, X55022, U18399, U18393, U18398, U57006, X55930, U18394, U57005, U57009, U18391, U18392, X55925, U18390, U14684, X55926, X54180, U18395, U14701, U57008,  |

|         |     |        |         |          |  |
|---------|-----|--------|---------|----------|--|
|         |     |        |         |          | X55932, U02063, X55931, U14703, U14707, U14702, X55928, U07048, X54175, U18387, AF196779, X54179, U18400, AF015166, S70699, AF147277, Z22650, Z03993, U67828, S70689, S70692, AF015149, U67827, AF064724, X33550, AC005799, Z49816, AF000553, AC007114, AF077058, U67829, AC005624, AC004381, AF015154, AC004542, AL117258, AF015151, AF001550, AF015157, AC007664, AF015147, AC004929, U75285, AF164343, AC007874, Z95114, AL035417, AL031255, AC002045, AC009516, U67831, Z95115, U47924, X74558, AC005043, AC005535, AL008718, AC005527, AC007738, AC003007, U67233, AC006312, AF018071, AL031709, AL049776, AC004878, U67231, AB020865, AC004638, AL049869, AC006011, AP000297, AL021453, U85195, AF060568, AC003119, AF085444, AC005387, AC004955, AP000510, AL035639, U50871, AC005330, Z69913, AC005632, Z49235, X88791, AC006363, AC004876, AC000379, AD000092, AE000658, U29953, AC005412, X60459, AC003111, AL031589, AF134726, AC007064, AC000052, AC004797, AC004167, S77605, AC002091, AF147439, AC006116, AP000402, AP000517, AC000999, AC007041, AL034420, U67225, AC007055, Y14768, AP000501, AC005529, AL078603, AC009891, AC004069, AF038458, AL035587, AC002312, AC006111, AC006013, AF045555, AC004019, AC006285, AC005763, AL031259, Z82198, AF085913, AC005144, AC004812, X76629, AC004033, AL13243, AC004815, U67222, AP000505, AL022310, AC005324, AC005194, AC002307, AC004894, AC003006, AC004821, Z69921, AC002094, AP000338, AC007792, AC005821, AC004531, AF094481, AC004522, AL121655, AC005375, AC005072, Y14486, AC004785, AC007666, and AC004453. |
| HCUEW58 | 602 | 850061 | 1 - 395 | 15 - 409 | H59974, H80899, AL020997, AC007308, AC005081, AF045555, AC007637, AC004686, Z95113, AC004953, Z81369, U95739, AC005049, AL079295, AC002302, AC004491, AL122020, AC005488, AL049869, AL008721, U89337, AC003009, AL031584, AF152365, AF1227686, AC006013, AC003663, AC005325, AC007938, AC004854, AC006515, Z99570, AL117337, AL121655, AC005005, AF190631, AC006115, AP000510, AL022316, AC006101, AC0007785, AL008726, AC004859, AC005391, AC005102, AL031311, AL132992, AC004477, AC004704, AC004019, AL080243, AL132777, AB023048, AC005632, AC009721, AC007263, AL022343, Z74617, AC006111, AC005971, U07562, AC004685, AC003029, Z82208, AC006271, AC005899, AC004832, AF064861, AL022318, AL246003, AD001527, Z97054, Z93930, AC005288, AC003689, AC004762, AL109738, AC005015, Z98946, AC006040, AF001549, AC005011, AL121658, AC004893, AL003147, AC004785, Z84467, and AC002369.  |
| HCUEX74 | 605 | 951897 | 1 - 326 | 15 - 340 | AF150416.  |
| HCUEY29 | 606 | 920419 | 1 - 378 | 15 - 392 |  |
| HCUEY48 | 607 | 576519 | 1 - 387 | 15 - 401 | R24915, N32878, R07374, AA748826, AA772016, AL287921, AL051037, AA026829, AA509065, AA745536, H91884, N64587, AA879033, AA055601, A1984593, AW271917, AL657416.  |

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|----------|-----|--------|---------|----------|--|
| HCUEZ88  | 608 | 576537 | 1 - 326 | 15 - 340 | AL028483, and AW023910.  |
| HCUFA05  | 609 | 932116 | 1 - 385 | 15 - 399 | Z93023.  |
| HCUFA38  | 610 | 675677 | 1 - 324 | 15 - 338 | AA626710, AW138429, AI087993, AI077877, N69907, AA657613, AW162236, AI161164, AL356294, and AC004067.  |
| HCUFBI5  | 611 | 660460 | 1 - 257 | 15 - 271 |  |
| HCUFBI89 | 612 | 746601 | 1 - 305 | 15 - 319 |  |
| HCUFJC22 | 613 | 951134 | 1 - 306 | 15 - 320 |  |
| HCUFJ09  | 614 | 625728 | 1 - 292 | 15 - 306 | T64920.  |
| HCUFJ64  | 615 | 576574 | 1 - 102 | 15 - 116 |  |
| HCUFJ32  | 616 | 920281 | 1 - 227 | 15 - 241 | AA679737.  |
| HCUFK94  | 617 | 722999 | 1 - 175 | 15 - 189 |  |
| HCUFJ02  | 618 | 932429 | 1 - 447 | 15 - 461 | AC000159, and AB007864.  |
| HCUFJ15  | 619 | 575844 | 1 - 448 | 15 - 462 |  |
| HCUFJ35  | 620 | 677853 | 1 - 413 | 15 - 427 | R98755, R98754, AA642005, and AW292993.  |
| HCUFJ77  | 621 | 575843 | 1 - 357 | 15 - 371 | R09221.  |
| HCUFJ60  | 622 | 730707 | 1 - 444 | 15 - 458 | AI824538, AL375432, AA887250, AJ914747, AI9321, AL034400, AP001052, AL021155, AC004821, AL133500, AC004985, AL049869, AF134726, Z73964, AC004812, U91318, AC002070, AC003950, AC006441, AC007227, AF001549, AC005829, AC004834, AC002476, AC002394, AC005919, AF064860, AC004687, AC005484, AC004382, AC004491, AC006014, AC002126, AC007565, AC005527, AC002996, AC005971, AC007371, AC004448, AC005057, AC005182, AC004646, Z97054, AC004851, Z98044, AL027313, AC009330, Z79695, AC000093, AC009542 |



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|---|-----|--------|---------|----------|--|
| AC004882, AL080243, AB001523, AC005377, L44140, AL096791, AL009181, AP000502, AC006211, AC005952, AC005529, AP000350, AC004216, AC007546, AC000077, AC003029, AC004472, AP000194, AL109657, AL078611, AL121595, AC004778, AL133353, AC007151, AC003690, AC005913, AL049569, AC004587, AC004820, Z98752, AC008989, AL022163, AL031588, AC000029, AC007055, AC002400, Z94056, AC004590, AC002039, AC005915, AC006241, AC004890, AC006509, AP000047, AL031276, AC002352, AL031985, AL11694, AL031673, AF053356, AL096701, AB003151, AL035089, AC005102, AP000552, AC006039, AC008072, U91323, AL021939, AC002303, AC003003, AL022323, AL022721, AP000117, AC004990, M90058, AF061032, AJ003147, AC005011, AC003101, AL050350, Z84487, AP000115, AL023575, AC003110, AP000512, AC004967, AC006505, AL024508, AC005193, AP000115, AL023575, AC003110, AP000512, AC004967, AC006505, AL024508, AC005193, AC005881, AC005332, AC004703, AL034417, AC006461, AC005015, AC005081, AP001054, AC004796, AL096702, AC004678, AC002468, AC007406, AC002470, AP000066, AC002350, AC008372, AL031005, AC005736, AL020997, AC006274, AL096703, AC005531, AC004841, AC004938, AC004686, AC005089, AC002425, AL117258, AC003010, AC005763, AP000555, AC005839, Y12787, AC002492, AC007688, AL008718, AC004854, AC007382, AP000501, and AL121757 |     |        |         |          |  |
| HCUFM65   | 623 | 576809 | 1 - 452 | 15 - 466 | R47962, AA731533, and A950023.   |
| HCUFN65   | 624 | 741927 | 1 - 487 | 15 - 501 | AA046457, A1373707, A1864613, AA054000, and AA015959.  |
| HCUFPI3   | 625 | 576582 | 1 - 339 | 15 - 353 |  |
| HCUFPP76  | 626 | 861703 | 1 - 293 | 15 - 307 |  |
| HCUFPP91  | 627 | 575864 | 1 - 140 | 15 - 154 |  |
| HCUFQ80   | 628 | 709357 | 1 - 455 | 15 - 469 | R89560, AA483606, AA570740, AA568204, AA664126, AL250262, N63755, AW083408, Z22963, AA015948, AA768179, AA482725, R89906, T05684, AW152348, AA565679, AA302978, AA633981, A1114772, A1866911, AA503018, AW002330, AA731361, AA487709, AW151018, A1821382, A1820534, H56703, A1120052, AA626411, A1801649, T50251, AA676592, AA810837, AL039801, AA229823, A1065038, F35684, AA228879, A1804539, N24909, A1889579, T51436, AW272815, AA572921, T63030, AA515723, N71619, AA564925, AA837771, AA745297, F31811, AA297006, A1800345, T05617, AW419126, H62923, A1709180, AA228442, AA862075, R34070, AW021608, AA507343, A1791437, N37070, A1732483, F00949, A1041595, H07953, H69653, N95817, A1206078, A1048838, A1041019, AL048825, AA177013, H59651, AW409763, AP000163, AB022537, AC005841, AL031228, AC005858, A18019437, Z95704, AC005192, AC002377, AC003083, AL035494, AC005799, AC004986, A1031432, AC005632, AC004772, AF109907, Z97180, AC005837, AC006406, AC004858, AC004987, AL031277, AC002550, AC003007, AC005820, I34294, AP000548, AC000120, AP000365, AC007277, Z93023, AL022721, AC005089, AC004855, AF139813, AC006597, AC006512, AC007731, AC005500, AC005575, AL096701, AC004910, AC004526, AL096712, AC007227, Z83844, AP000561, AC006030, AP000116, AL049872, AL050318, AC005057, AL109980, AC004033, AC003025, |

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|  |  |  |  |  | AC004228, AC004796, AC004884, AL009181, AC006057, Z85987, AL049692, AL024498, U91326, AL031577, Z49235, AC005793, AF047825, AC005037, AL009178, AC006146, X71402, AC002314, AC006013, Z68756, AL008635, AL031680, U47924, AL008719, AC002538, AL035744, AC007358, AB0016897, AL133246, AL022311, AC005086, AC005545, U62293, Z93241, L48038, AC0010205, AL132987, AC004686, AC004263, AP000311, AC005358, AF001549, AB023049, AC006023, AC006088, AL033521, AC002059, AC007276, AL0380243, AL022336, AL049761, AL049833, AF069291, U80017, AC006948, AC002549, AL031584, AL022343, AL109952, AL049713, AB015355, AC006275, AC020663, AC005703, AL022719, AC005409, AL109984, AC004659, AL049591, AC005800, AC006006, AC005005, AC004234, U95742, Z95116, L44140, AC003026, AL003147, AC005071, AC007216, AC005763, AC005183, Z83843, AC004386, AF029308, AC007435, AC000003, AC005257, AL031123, AC005219, AC005231, Z81364, AL121823, AC009286, AC004880, AP000251, AL033381, AC006241, AC007429, AC004656, AC003689, AL031668, AC005874, AF134471, U78027, AF196972, AC007226, AC007688, AF111169, AC004596, AL133245, AC007066, AC005940, AC006285, AB001523, AC007367, AL031005, Z948001, AL035422, Z97053, AC000026, AF207550, AC007540, AL049538, AC004834, AL009031, AC002326, AC005069, AL035071, AC004382, AL098661, AC004024, AC001231, AC002563, AL034423, AC004864, AC005488, AC005516, AP000030, AC007151, AL031447, AC004817, AC004594, AL031291, AL035413, Z82176, AC004805, AF217403, AP000511, AP000555, AL133312, AC006344, AC005821, AC004531, AL034549, AL096791, AC008119, AC004783, AC002470, AL020997, Z93020, AF143315, AC005696, AL132712, AF196779, AC007388, AC006014, U91125, AP000066, AC005520, AL096774, Z94802, AC000387, AC016026, AL022313, AC005962, AC005412, AC004655, AF239318, Z84469, AL035405, D84401, and AL008718. |
|  |  |  |  |  | AC007879.   |
|  |  |  |  |  | AW403674.   |
|  |  |  |  |  | AA088560, AF1733702, AF1733719, and AA053641.   |
|  |  |  |  |  | AA077835, AF149915, AC005914, AC007785, AC005082, and AC006371.   |
|  |  |  |  |  | AA361129.   |
|  |  |  |  |  | AA618332, and AC0004883.  |
|  |  |  |  |  | T65857, AF1678013, R44293, R40978, H24231, P01849, AW177822, T92856, AW177816, AC006537, U73166, AC006512, AC000353, AC005102, AC004685, and AC004458.  |
|  |  |  |  |  | AL031666.   |
|  |  |  |  |  | T08386, AF636734, AA947369, AA077619, R34070, AA830070, AW151018, P09355, AA598605, AF199421, AF459943, AW019964, AF121762, AA565319, AA612727, AL121287, AA788592, AA721554, AA664126, AW408767, AA745302, AA742818, AA878407, AA938390, AL052776,   |

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| AI160786, AA323293, AA736557, AA594719, N41775, AA579799, AA508036, AW440368,<br>AL134167, AA553457, AF732911, AI904944, AA515926, AI459904, AI284045, AA846923,<br>AW054936, H38769, AA502207, AI918419, AW102811, T90477, AI824476, AA715508,<br>AW338860, AI819391, AI567391, AI749893, H12857, R69819, AI823705, AW028950, AI925065,<br>AI025930, AW161016, AW088631, N68449, AA715075, W24312, AW238253, AI135184,<br>AI355873, AA847831, F35684, AA558748, AA501867, AI879951, AI335963, AI135154,<br>AA93636, H79586, AA599080, AI114704, AA219349, AA634926, AA503018, AI306717,<br>AI948480, R60004, R83068, R67701, AI120543, AA772704, AW264901, T34144, AA297207,<br>AI915173, AI250262, AI417586, W95552, C14330, AA326904, AA564682, AA469172, T51556,<br>AI923052, AA493947, T50676, AA336058, AA582374, AI289050, R93919, AA383091,<br>AA603264, AI284092, AA230146, AI479068, AA650447, AC005971, AC014549, AC015457,<br>AC006547, AC004765, AC005696, AC006317, AI109952, AI1096791, AI049589, AC000003,<br>AC000134, AI031848, AC006057, AC006512, AI035588, U47924, AP000337, AP000216,<br>AC006581, AI096701, AC006449, AI020996, AI049759, AI049643, AC006141, AI035443,<br>AC004858, AF015416, AI031291, AC004815, AF045555, AI109628, AC004148, AF109907,<br>AC006088, AC005664, AC005531, AC005566, AC004882, AC003037, AC005632, AC007637,<br>AC005081, AC004263, AI035405, AI023879, AI022721, AI022400, AC002350, Z99943,<br>AC005519, AC005529, AI022238, AC007917, AI035588, AI031295, AC004019, AI021939,<br>AC005874, AF134471, AC005952, AI031737, AI049869, AC002369, AI049653, AC004262,<br>AC005881, AP000566, AC010206, AC000097, AC005089, AI020995, AC005921, AC004668,<br>Z98750, AC005237, AC004106, AC005736, AC006211, Z83840, AI096773, AC006480,<br>AF047825, AC004098, AC004587, AI09179, AF146024, AI049697, AI135783, AI080243,<br>AF200465, AC006597, AI023803, AC004675, X55448, AC005859, L44140, AC005082,<br>AC004223, AC005046, AD000092, AC007552, AC007371, AC006464, AC002992, AC003108,<br>U91324, AC005837, AF196779, AB012286, AC004985, AC006017, AC009247, AI049839,<br>AF088219, AC005670, AC005729, AC005488, AC002300, AC003010, AC007934, AC004859,<br>I34294, Z95331, AC003024, AC004967, AP000033, AC005057, AP000509, U91326, AI133555,<br>AC004757, AC005651, AC005765, AC002344, AC000052, AC007993, AC006121, AI049776,<br>AC007566, AC005154, AF064861, AI003147, AP000310, AP000309, AI035400, Z83826,<br>AC005777, AC002394, AP000048, AC005376, AP000116, AI031230, AC004216, AI035447,<br>AC007228, AI109984, AC005913, AC005011, AC006071, AR036572, U91328, AC006210,<br>AC005962, AD000812, AC002126, AC004050, AC007406, AC006064, AC003043, AP000555,<br>AC005618, AC006390, AC006014, AI035071, L77570, AP050154, L78810, AP000229,<br>AP000144, AI109967, AC004583, AC007057, AI049872, AC003665, AC005726, AI031321,<br>AC007201, AI031707, AC005578, AC004974, AC003690, AC000090, AC007938, Z73359,<br>AF196969, AI031767, AC005822, AP000355, AC006208, AI022311, AC004629, AI136295,<br>AC007687, AC007055, AC004042, AI033543, AC004000, AC004099, U91318, AI031587, |  |  |  |
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|---------|-----|--------|---------|----------|---|
| HCUFW83 | 640 | 577263 | 1 - 401 | 15 - 415 | AC007842, AL133382, Z84484, AL008719, AJ229041, AC006318, AC006077, Z98044, AC005559, AC005225, AL050350, AC007014, AC002378, AP000272, AC002458, Z98052, AC004953, AC006312, X96670, AC000035, AF149773, AC005164, AC008067, AF038458, AP000503, AF029308, Z86690, AL031311, AC006251, AC005152, U02051, AC009509, AL031005, AP000553, AC004991, and AC004381.   |
| HCUFX24 | 641 | 577266 | 1 - 178 | 15 - 192 | AW449501, and A1751021.   |
| HCUFY27 | 642 | 850067 | 1 - 564 | 15 - 578 |   |
| HCUFY27 | 643 | 669876 | 1 - 112 | 15 - 126 |   |
| HCUFY35 | 644 | 577130 | 1 - 337 | 15 - 351 | AW339568, AW270284, AL305766, AL208977, A1565581, AW102955, A1345522, AA658235, A1357551, AL020395, AL344844, AL120008, AL340453, A1557323, F33121, AL708009, N69962, A1937850, AA225201, AL1379719, W07122, A1110848, A1880168, AA637741, A1053786, A1254338, AL349874, AL134330, AA993198, A1801591, A1084012, AW169687, AW403720, AL345654, AW265009, A1802526, AA581903, AA569284, AW327360, A1697353, AA369477, AA484148, AF034176, A1423941, A1473943, A1889765, A161293, A1923140, A1924251, A1888110, A1890928, A1890570, AW157326, T171998, A1225141, AW265294, A1358571, AL043756, AA715362, AA251117, AA715270, N43757, AL023575, A1031675, Z98950, AC006211, AL033397, AL049780, AC007055, AC006146, AL034419, AP001039, AC007540, AC005544, AF042090, AC005226, AL033381, AC005906, AC005245, X13921, AC002536, AL021391, AC002430, AC007384, AL049557, AP000295, AL109754, AC005856, Z85996, Z95113, AL022318, AC005684, AL022396, AC002394, AF091512, AC005548, A1003147, AC004381, AL031311, AC003087, AC004228, AC022517, AP000354, AC007917, AC005821, U63721, Z82194, AC005274, AL137191, AC005386, U07000, AF011889, AC005772, AC004408, AL022147, AC006037, AL031668, Z98049, Z98257, AC007160, AL121580, AL031447, AC007652, AL034376, AC004770, AC006213, AF064866, AB015752, AF029308, AC005722, AL109758, AL132987, AC005070, AP000356, Z84814, AC006840, AC002470, AL034350, AC006996, AC005005, AC005912, AC008012, AL031368, AL034370, AC002070, AC007878, AP000245, AD000684, Z97205, AC009405, AL021977, AF001552, AC005664, AP0000938, AC005697, Z93942, AC005820, Z94044, AC005694, AP000566, AC004887, AP000120, AP000167, AP000032, AC004941, AP000961, AC006253, AC006547, and AC005220. |
| HCUFY40 | 645 | 967273 | 1 - 194 | 15 - 208 |   |
| HCUFZ81 | 646 | 878882 | 1 - 346 | 15 - 360 | W24312, AA634926, F11421, AW007247, H60486, AA569089, AA938390, Z95331, AC006441, AL022316, AF111168, AL035659, AC012384, AC002378, AC002565, AC007546, AL079342, Z99716, AC005952, AC005225, AC005722, AL109627, AC004876, AP000356, Z83840, AC002119, AL109657, AC005736, AC005089, AD000813, AC007066, AL049856, AC004832, AL080243, AL096791, AP000349, AL049709, AC005091, AC007011, AP000113,   |
| HCUGB48 | 647 | 880730 | 1 - 470 | 15 - 484 |   |

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|---------|-----|--------|---------|---|
| HCUGC96 | 648 | 575825 | 1 - 546 | AP000045, AL035249, AC006449, Z983304, AL033392, AC002040, AL031662, AC004099, U82668, U80017, AL035086, AC004966, AP000493, AC007384, AL035695, AC005360, AC007182, AL133448, AC005903, AL034549, AL022322, AC005355, Y07848, Z93020, AL030996, AC006001, and AC005031.  |
| HCUGD15 | 649 | 660343 | 1 - 429 | R64618, and R64619.   |
| HCUGF18 | 650 | 666495 | 1 - 309 | AI821309, T57578, AI820666, T91659, AI732244, T93260, AC007344, AC002542, AL139054, and AL109946.   |
| HCUGF61 | 651 | 741842 | 1 - 393 | AC0009411.  |
| HCUGG25 | 652 | 678112 | 1 - 164 | AC0009411.  |
| HCUGH01 | 653 | 916600 | 1 - 316 | AC0009411.  |
| HCUGH30 | 654 | 778735 | 1 - 436 | R09190.   |
| HCUGH34 | 655 | 706469 | 1 - 300 | AI248117, N34987, and AI242866.   |
| HCUGH83 | 656 | 862078 | 1 - 188 | AP0000111, and AP000153.  |
| HCUGI29 | 657 | 584711 | 1 - 669 | AA011550, AA854029, AI808348, AA448255, H61005, AL035067, AL121934, and AC000004.   |
| HCUGI54 | 658 | 715310 | 1 - 154 | AF150363, U25791, and Z64124.   |
| HCUGI35 | 659 | 850046 | 1 - 280 | AW131457, AI792578, AI054419, AA720732, AI244356, AW008089, U95742, AL121603, U91326, AC002344, AC004019, AL022476, AC005527, AC005668, AL034420, AC005670, AC008044, AC007216, AL031255, AL133245, AP000501, AC005971, AC006486, AC003104, AC010169, Z97205, AL022336, AC005484, AC005529, AL109985, AC006948, AL096791, AC003101, AC002312, AC004967, AL121658, AC005031, AC002470, U80017, AL109827, Z81364, AC005921, AC005839, AF205588, AP000105, AP000037, AL049795, U47924, AL117337, AP000354, AC002369, AF190465, AL031670, AF134726, AC005529, AC006441, AC005399, AP000228, AC006241, AP000140, AC003688, AC005800, AC004230, AC006312, AC006384, AP000275, AC006511, AC006538, AC007386, AL021368, AL049776, AP000088, AC005482, AC006972, AC005412, AR036572, U91328, AC004655, AC006116, AC004526, AC005841, AC005539, AL049869, and AE000658. |
| HCUGK91 | 661 | 790218 | 1 - 135 | AI049931, AI133226, and AC007685.   |
| HCUGL14 | 662 | 658467 | 1 - 313 | F33566, N71930, AL0042753, AI888008, AI499094, AC002119, AC005772, AL031589, AF165926, AC006241, AC007676, AC012599, AC005730, AL008582, AC005057, AC009248, U62293, AC005527, AC004686, U85195, AC006273, AL021154, AL035414, Z98051, AL133245, AE000658, AL096701, AL035684, AL050333, and AC002115.  |
| HCUGL84 | 663 | 496491 | 1 - 304 | T63954, AA648150, AW438856, W04941, AW236344, H85059, AI016704, AA188665, AW277253, R44641, AA714586, AA593471, AI472075, R70333, AA297698, AA043218,   |
| HCUGM08 | 664 | 959488 | 1 - 364 |   |

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|--|----------|---------|--------|-----|---------|
| AA206629, AA078831, F01222, N54179, A1797901, A1797892, A1345717, A1287921, A1020997, U62293, A1035681, AC005057, AC005089, AC006285, AC016025, U80017, AC007919, AC005162, A1031848, AC005081, A1034429, AB011134, A1031846, AC010209, AC004686, Z49236, A1049759, A1049539, AC005914, A1022320, A1007042, AC006077, A1049776, AC006064, AC007191, AC005480, Z83826, Z99943, A1021808, AC004999, A1035684, AP000359, AC005387, AC005215, AC005058, A1021393, A1049874, AC002347, AC006001, A1035072, AC004859, A1031255, A132987, AC001228, AC004817, A1031276, AC005837, A1008582, AC005210, AC004814, AC005411, AC005280, A1096712, A1031263, U02050, U82672, Z84480, A1033479, U66061, AC004217, AP000752, AC000353, AP000556, AP000031, AB015703, A121769, AC005520, A133448, A1034430, A133163, L48038, AC009516, AB007956, A1022326, AC004882, A139054, AC004019, AC007160, AC005082, AP000134, AP000212, AC006501, A1239325, AC004531, A1031431, AC020663, AC00486, A1049713, AC003029, AP064858, AR060394, AC005839, U62292, AC005399, AC004000, A1031005, AP000563, A1031666, AC005512, U82671, Z93020, AC005529, AC006047, AC000026, AC004887, A109758, AC005231, AC004216, AC007151, A1312777, AC006211, U63721, U95742, AC002059, A1031311, AC004990, Z99127, AC002404, A1035398, AF165926, AC005887, AC005216, A109628, AC005746, AC006111, AP000141, AC004526, AC005874, AF134471, A1021154, AC004841, AC003966, AC007308, AP000512, A1049869, A1049712, AP000558, AP000211, AP000133, AC003109, Z97054, AP000509, U95740, AP000556, A121655, AC002470, AC005015, AC004520, AC004704, A1023879, Z74739, AC004057, AC005348, A1109839, AC002511, AB023049, AC010206, AF064866, AC005900, AP000088, and AC006479. |          |         |        |     |         |
| AA702118, AW381452, W95006, W95007, and AC002375.  | 15 - 458 | 1 - 444 | 970727 | 665 | HCUGN12 |
| AA127364, AC004033, AC005500, A1049856, AC007731, Z98941, AC002477, AC006088, AC002390, and A1021391.  | 15 - 354 | 1 - 340 | 920154 | 666 | HCUGO02 |
| AC002559.  | 15 - 220 | 1 - 206 | 850029 | 667 | HCUGP83 |
| Z54621.  | 15 - 357 | 1 - 343 | 917269 | 668 | HCUGQ16 |
| A1686509, A1670941, A1380740, A1652572, A1810486, AA251386, and AF070587.  | 15 - 367 | 1 - 353 | 666474 | 669 | HCUGQ18 |
|  | 15 - 346 | 1 - 332 | 706471 | 670 | HCUGR38 |
|  | 15 - 439 | 1 - 425 | 916538 | 671 | HCUGR82 |
|  | 15 - 363 | 1 - 349 | 692730 | 672 | HCUGT92 |
|  | 15 - 214 | 1 - 200 | 666815 | 673 | HCUGU46 |
|  | 15 - 375 | 1 - 361 | 850032 | 674 | HCUGV38 |
| R96187, AA327572, R96188, AA382056, AW084237, A1791180, A1821138, AA508578, AW194802, A1623409, AA649148, AP932902, AA707289, AA669816, H54292, A1889612, A1623423, AA573189, A1041364, AA085863, AA380599, AA357240, AA594725, A1926366, N54179, A1446638, T61853, A1660594, AA365144, AA584749, A1124660, AA650135, AA864575, AA806762, AA524668, A1863399, C14600, A1064952, A1963720, AA516326,  |          |         |        |     |         |

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|         |     |        |         | AA351926, AA947837, AA826144, AL046409, AA078483, AL345161, AV021917, AA525915, AA483043, AA7082213, AA167741, F31799, AW150689, F37223, AA715606, AL678392, AI110770, AI453233, A274064, AL613280, AL041450, AW194269, AC006001, AL678392, AL031286, AC004477, AL049795, AC007637, AC004491, AP000289, MI15958, AC003010, AP000042, AP000110, AC005332, AC004383, AL078584, AC007376, AC004985, AC002364, AC004216, AC005778, AC002984, AC007686, AC002527, AL049869, AC006285, AC007011, AC016025, AP000514, U95740, AC002996, AL031985, AL022328, AC005632, X87344, Z84487, AC002350, AC004134, AC007564, Z84469, AC004000, AP000502, AC004217, AL030343, AL117694, AC006251, AC002365, AL031594, AC005006, AC004020, AC006088, AC006430, AC006538, AC005224, AC002301, AC007685, AC005261, AC002331, AL031311, AL031683, AC003108, AC008124, AC003037, AC005736, AF134726, AC005996, AL117552, AC004770, L78810, AC004448, AC005488, AC005072, AC005015, AC004968, AD000092, AL031584, AL022339, Z99716, AC004552, AC003663, AC002041, AJ011930, AL133353, AC005104, AL049872, AF001549, AP000065, AC005229, AF196779, AC005971, AC005932, AF030453, AC005089, AC005666, AC005258, AC004938, AL121653, AC004019, AC005088, AL049766, AC006597, AC005722, AC005067, AC005513, AC007056, AL034554, AC006014, AC007298, AC003070, AC004125, AC003983, AC007690, AP000557, AC007050, Z82178, AC002132, AC004983, AL031587, AC005899, AL121655, AL121603, AP000113, AP000045, AC005379, AC005755, AL034548, AL078621, AC005187, AC005252, AL035530, AC002126, AL022329, AC007541, AC005747, AC004910, AP000167, AP000052, AP000692, AL049643, Z93017, AC008115, AC003689, AL121852, AL133448, AL049759, AL139054, AL121748, AC006372, AC007731, AP000556, AF001548, AL031010, AL049758, AC003007, AL031589, AL031729, AC004253, AF024533, AL133382, AC005288, AC005184, AC007666, AC002352, AC004195, AP000553, AF031078, AP000116, AC007055, AC004841, AC005519, AC005414, AC004933, AC009464, AC005912, AC004815, Z82244, AP000211, AP000133, AP000049, AC006312, AL121694, AF030876, AC005081, AC008928, AL049760, AL121652, AF053356, AC005230, AC005529, AC006480, AL035681, AC005231, AL049709, AC006006, AC007671, AC006650, AP000311, AC006079, AC004821, Z92540, AC005280, AC004531, AL049829, AL031427, Z98751, Z93244, AL022336, AC004859, AF091512, AC003026, AC003972, Z85986, AC004757, AC002400, AL049712, AL033527, AC004765, AL031053, AC005412, AC005158, D87009, AC005876, AC004099, AL031447, AC002425, AL035447, AL035400, AC005599, AC007214, AC005057, AB023048, AC012384, AL031767, AF139813, AC007276, AL050307, AC005037, AC006203, U52112, AC005914, U85195, AB020863, AL133355, AL031846, AL022326, AL117238, AC005531, AC007684, AC007227, and AC004942. |
| HCUGV60 | 675 | 496443 | 1 - 412 | AC007964, AJ229041, AF020802, and AP000687.  |
| HCUGW04 | 676 | 960596 | 1 - 257 | AI557735, AI541487, AI541489, AI526178, AI55747, AI541516, AI526200, AI557797, AI541491, AI557718, AI541501, AI526151, AI557724, AI557740, AW393605, AI526177,   |

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|---------|-----|--------|---------|----------|---|
| HCUGY26 | 677 | 953550 | 1 - 480 | 15 - 494 | <p> A1526179, A1541535, A1557789, A1541490, A1526127, V00124, V00125, J00032, J00030, J00036, J00034, J00037, J00038, J00039, A0010555, and A0010556.<br/> T86914, L1217, H81306, AL015495, AC004836, AP000350, and AC020663.<br/> AA580889, F15659, A446464, AL064804, H29303, AA610491, AL1792108, AL079129, AW274349, A3031196, AW301350, WA53536, R89436, AW338086, AA663306, A1886629, N27353, A4877997, T06652, A1872460, AA558227, Z81364, AL080243, AP000558, AC000557, AC009516, AC006016, AC007556, AP000556, AC008372, AC008701, D885268, AC007021, AC005574, AC004741, AC006019, D87675, AC004614, D875042, Z84487, AC004359, AF011467, AL031686, AC006441, AL035411, AP001141, Z75894, Z75895, AC004467, AC006313, AP000088, AC004814, AL031122, AC005071, Z98884, AF090944, AL008582, AC004702, AC004894, AL031662, AC005899, AC000035, AC005049, AC004821, AC005690, AC004448, AC007934, AC005971, U95743, AL109963, AL024474, AP001014, AP001052, AC006925, AC006211, Z49736, AC006561, AC002369, Z84480, AC002456, AL010598, AL031276, Z98052, AC002981, AC005531, AL032695, AL079340, AL031666, AL049856, AC006600, AL109847, U60059, AC004841, Z85987, AL133245, D86999, AC000090, AC006292, AL050332, AC006203, AF11168, AL023713, AC008984, AC004777, AL031767, AL022337, AC005799, Z84488, AC002289, AC002485, AC010072, and AL078593.<br/> AA494014, AL628859, AL041352, AW002330, AL035249, AC009247, AL021757, AC006057, AL121769, AC004217, AL050341, AC006449, AC004143, AC005284, AC002369, AC005351, AC005206, AC005667, U80460, Z83822, AC006315, and AC002128.<br/> AA629699, AP000346, AP000347, AL021368, and Z79145.<br/> AW440928, N58862, AA613460, and Z97989.<br/> W39262, AL1797360, and AL823657.<br/> Z98036. </p> |
| HCUHA63 | 679 | 745094 | 1 - 296 | 15 - 310 |   |
| HCUHA74 | 680 | 576850 | 1 - 434 | 15 - 448 |   |
| HCUBH30 | 681 | 850018 | 1 - 438 | 15 - 452 |   |
| HCUHC25 | 682 | 920830 | 1 - 305 | 15 - 319 |   |
| HCUHC41 | 683 | 712343 | 1 - 354 | 15 - 368 |   |
| HCUHC45 | 684 | 671212 | 1 - 354 | 15 - 368 |   |
| HCUHC69 | 685 | 693007 | 1 - 189 | 15 - 203 |   |
| HCUHD50 | 686 | 650854 | 1 - 398 | 15 - 412 |   |
| HCUHD55 | 687 | 705384 | 1 - 479 | 15 - 493 | <p> A419262, AL284640, A6238016, AL053672, AA559290, AA077776, AL536625, AA637771, AA614069, AL653886, AA365302, AL002197, AW419389, F32926, A4099838, F24728, AP926233, AL1761471, AL299050, AL334443, AA167741, AA302963, AA489775, A W023111, AA526724, AA843450, AL915081, AL357823, AA652057, AA346586, R67701, AA804379, AA528500, AA973803, T80500, AW248940, AL185394, AL754291, H67172, AL561116, R91994, AL04746, AA486820, Z23147, Z61362, AC004126, AL109627, AL031255, AC006948, AC000134, U02058, AC005482, Z99755, AC006270, Z82244, AC006057, AC006125, AL031281, X54176, AL133353, AL0031732, AC004526, X54181, X54178, AC006511, AL031432, I34294, AP000115, AC005317, AC002492, AC002316, AC002990, Z84476, AC005291, AC0005378, AC006070, AL035659, U89337, AL031055, Z84488, AL133444, AL031587. </p>  |



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|         |     |        |         | AC008372, U47924, AC004820, AC004381, AL034419, AC003101, Z84484, X54177, AC003003, AL022336, AC007308, AC002463, AC006126, AC003108, AL049757, AC004134, AC005375, AL008583, AC005365, AL117258, AC006241, AC006312, AD000813, AC009181, AC008116, AL080317, AP000474, AL023803, AF001552, AF196779, AC007537, AC005581, AC004453, AL096703, AP000212, AC002418, Z83843, AL117330, AC004130, AC003568, AC006120, AL033375, AP000080, AP000152, AC007066, AC004382, AC007030, AF190465, AC002558, Z94801, AC007735, AC006137, U73634, U29953, AF178081, AC004544, AC007728, AC004518, AL096701, AC005412, AC006257, AC005512, AL022323, AC002425, AC005081, AL009610, L48038, AL022576, Z85986, AP001060, AP000289, AC005217, AC000003, AF088219, AL022316, AL035420, AC004929, AL008719, AP000110, U02531, U80017, AC004386, AL049569, AC006543, AC005839, AC005410, AC007919, AD000092, AC007707, AC003029, AC005406, AC006251, AC007387, AC007564, AL049589, AC005189, AC007731, AC005913, AC005500, AL034553, AC002119, AP000090, AC005726, U02532, AL049576, AF067844, AC004216, AC004217, AC006544, AP000552, AC002352, AL080286, Z97195, AL020993, AL031284, AC007536, AL050333, AL031733, AC008149, AL034406, AC007425, AL121769, AC004554, AF111167, AC008163, AC006552, AL033072, AL035683, AL033543, AL033521, AC006323, AC006277, AC000026, AF111169, Z82215, AL109628, AL031685, AL034420, AC007563, AL021392, AC005193, AF097738, AL049829, Z82246, Z97635, AC005003, AC007540, AC002289, U34879, AL035687, AL078462, AF019413, AL031664, U02507, AC004383, AC005598, AC004466, AC005740, AL121603, AC005255, AC004000, AL003147, AP000558, AC006965, AC007298, AL049635, L78810, AC007159, AP000049, AL049691, AL049860, AC005162, AC006275, AC004408, AC005736, AC005988, AL022318, AC002073, AL034418, AC004746, AL023655, AC009721, AL008722, AC002472, and U73023. |  |
| HCUHE23 | 688 | 675910 | 1 - 314 | 15 - 328  | AA127426, AW023990, AA080866, AL031591, Z97056, AF131217, AC005512, X06053, AC004858, AC016831, AL096703, AF165147, AP001052, AC006088, AC005031, AC004084, AC005281, AC008132, AL031542, AC004999, U80017, AC005920, AF087913, AC005180, AF200465, AC005242, AC005189, AC007686, AC007589, AC005908, AL035422, AC005829, AC002477, AC008018, AC006064, AL050332, AP0000493, AC008033, AC000025, AC004972, AB023049, AL035658, AC005695, AL096791, AP000555, AD000090, and AC006023. |
| HCUHE31 | 689 | 693311 | 1 - 340 | 15 - 354  |  |
|         |     |        |         |   | AL1800436, AA746360, and AL1800456.  |
|         |     |        |         |   | AL002492.  |
|         |     |        |         |   | AL023096.  |
| HCUHE43 | 690 | 754187 | 1 - 314 | 15 - 328  |  |
| HCUHE48 | 691 | 835917 | 1 - 397 | 15 - 411  |  |
| HCUHE76 | 692 | 666599 | 1 - 319 | 15 - 333  |  |
| HCUHF12 | 693 | 970685 | 1 - 543 | 15 - 557  |  |
| HCUHF41 | 694 | 878528 | 1 - 529 | 15 - 543  | AL1254913, AA547947, AW302080, AW302087, H82133, AA846952, AL932599, AA509661, AL082791, AL119691, AL253007, AF402039, AA507612, AL751216, AW303096, AW268291, T60681, AW410354, AL1382825, AA491681, AL1278972, AA569471, AL002941, AL932333, H90844,   |

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|         |     |        |         |          |  |
|---------|-----|--------|---------|----------|--|
| HCUHM94 | 704 | 736095 | I - 250 | 15 - 264 | AC002302.  |
| HCUH060 | 705 | 576563 | I - 258 | 15 - 272 | AP0122006, AP0001193, AP000050, and AP000117   |
| HCUHP20 | 706 | 669737 | I - 384 | 15 - 398 | AA0122006, AA122007, AL733856, AL753365, AL254779, AW19262, AL039187, AL017251, AW2740078, AA482711, AS584489, AL634187, AL862716, AW193403, AS527209, AA503019, AW117740, AW069227, AW217069, AA610509, AA410788, AW162049, NT3060, AA507179, AL092531, AA634837, AA315361, AA574442, AL250552, AA742815, AL128454, AL457313, AL912401, AL040051, AL079901, H30475, AA483606, AL079734, AL254770, AA287570, AL251284, AL251034, AL251203, AL223626, AL249853, AA652868, AL570740, AA613627, H47736, T50676, AW029038, AL679413, AL380617, AL569086, AL004591, AL469599, AA856961, AA582554, AA228778, AW167154, AL821094, AA255853, AS904275, AL120343, AW067788, AA513846, AL079423, AH756111, AL904211, AL962050, AW068007, AL885557, AL908693, AL623805, AW302048, AL564209, AL338426, AL365988, AL687206, AL653886, AL053978, AL884522, AL339850, AL570261, AL0419973, AL704746, AA558366, AA568204, AA013168, AL276298, AA569706, AW466755, AW068008, AL358229, AW166815, AA604884, AL866580, AL732120, AW089950, AC000353, AF024534, AC007666, AC005086, U91321, AC005291, AC005678, AC002126, Z82203, Z95152, AC006211, AP000510, AC004895, AC005071, AB023048, AC004417, AC005531, AC002070, AC004099, AL034351, AC005102, AL117340, AL035450, AC006312, U63721, AC006511, AC007193, AC005411, I34294, AC006314, AC007199, AC005484, AL109627, AB003151, AL031680, AC004797, AF109907, AF111668, AC007395, Z84480, AC009247, AC007686, AL139054, AC005777, U82828, AL023803, AC005837, AF196969, AC006084, AC005800, AC005225, M87914, AP000556, AP000557, AC005722, AC004253, AC005971, AC005274, AF085946, AC006088, AL049830, AL035658, Z97054, Z85986, AP000289, Z84466, A39972, AC005520, AP000042, AP000110, AC005736, AC004999, AC002312, AC005089, AL031281, AC005237, AC0031282, AL109865, AP000688, AL034418, AL049749, AC003047, AC005081, AL121603, Z98946, Z84487, AP000501, AL121652, AL021546, AC004477, AC004491, AC004953, U95739, AL049843, AC004890, AC002519, AF015160, AC000087, AL096791, AL033392, AC003111, AL035458, AF134726, AL035587, AC004517, AC004973, S75201, AC006947, AC007225, AC005015, AF045555, AC006538, AC004686, AL021391, AL049874, AL022165, AC002310, L78810, AC005028, AF196779, AC007551, AC0050075, AC004263, AL035682, AP000694, Z98048, Z94801, AC012627, AC006597, AL035415, AC005859, AC005696, AB001523, AC004812, AC005300, AC004985, AC004841, AJ003147, AD000813, AC007065, AF000037, AC002997, AC004804, Z85987, AP001053, AC006581, AC007785, AF000211, AP000133, AC005037, AC005829, AC006121, AC016831, AC007845, AC006006, AC002563, AP000113, AP000045, AC003950, AL031685, AC004168, AL034420, AL049776, AC008545, AF165926, AC004884, AC005057, AF092858, Z77249, AC007226, AC004882, AC005529, AL133448, U96629, AC002565, Z98304, AC007043, AC004000, AC004734, Z83845, AP00088, AC005363, |

|                               |     |        |         |          |   |
|-------------------------------|-----|--------|---------|----------|---|
| HCUHQ13<br>HCUHQ33<br>HCUHQ37 | 707 | 575803 | 1 - 352 | 15 - 366 | AL133163, AL035422, AC002985, AC007371, AC005088, AL080242, AF001550, AC003678, AC004032, AL023577, AC004760, AL121754, AC005940, AC006530, AC005538, AC005209, AL034451, AF075098, AP000692, AP000121, AC005318, AC007637, AL109952, AP000503, AL049766, AL009181, AC007277, AC005578, AF010238, AC004500, AL021154, AF000537, AF037338, L78833, AC018633, AC005049, AC007792, AC006449, AL049569, AF061258, AC006125, AF176815, Z99943, AL035400, AC005215, AL008582, AC003108, AC006285, AC004816, AP000555, AC005280, AL031664, AF129756, AL078477, AC005622, AC002470, AC002416, AL035703, AL031005, AC004560, AC002347, U07561, and AC006578.   |
|                               | 708 | 575800 | 1 - 341 | 15 - 355 | AA460896, W72144, AA210943, N27422, AA496897, AL035413, and AL035249.   |
|                               | 709 | 850010 | 1 - 386 | 15 - 400 | AL281622, T95073, H52431, AC006077, AC005412, AC005911, and AL033392, AC005736, AL031291, AC005529, AL109963, AC005049, AC005071, AC005089, AC005899, AC006111, AC005520, AC004491, AL133245, U91326, AC005015, U91323, AL023807, AC006621, AC006487, AC005295, AC008372, AC009247, AC005874, AF134471, Z93244, Z93930, AC003108, AC004938, AC002404, AC004882, AC005081, AC006312, AC003070, AP000514, AL096701, AC005255, AL049776, AP000692, AL020997, AF165926, AC005544, AC005332, AC007537, U95742, AC005399, AL096678, AL049795, AL022318, AC007205, AF196971, AC005225, AF124523, AC004814, AC006449, AC007263, AC009516, AC005088, AL109827, AC004139, AC004098, AC002429, AL049869, AC005722, AC002544, AC005527, AC006538, AC004922, AF118808, AL031311, AL035422, AL022323, L78810, AC007055, AP000952, AC007993, AL109627, AC005280, AC005881, AP000045, AP000113, AC005921, AL135744, AP000556, AP000502, AC004876, AC003109, AC005932, Z99716, AD000092, AC007226, AL031447, AC005480, AF111168, AC005694, AC007216, AC004893, AC002565, AL139054, AL031587, AP000512, AC002310, AC004596, U85195, AF134726, AP000557, L47334, AC005207, AC000353, AC007193, AC002550, and T97461. |
| HCUHQ74                       | 710 | 765638 | 1 - 341 | 15 - 355 | AW020154, AW245057, AW023511, AA365318, AL648333, W63553, AA643451, AA659200, N62666, AA559166, AA171892, AL080639, AA584756, AW029444, AA633039, H43183, AL049504, AA643441, AL628245, AA330380, AL890753, AL635819, AA230155, AW130427, AL733748, AA278496, AL732430, AL049986, AA126763, AL126811, RG3003, AL1134330, AA993198, AT753365, AJ922850, AC005701, AC005777, AC004242, AL031668, AP000113, AC003982, AL022336, AC006480, AL022324, Z83843, AC007057, AL022302, AC004386, AC007308, AC005932, Z97183, AC004382, AP000512, AF037438, AC005295, U91326, AL008639, AC002470, AL121825, AL049759, AC007192, AB023051, Z82194, AL049569, AC016027, AL020993, AP001046, AC006165, AL031276, AC005756, AC016630, Z97054, AP000354, AL022329, AC006441, U18671, AC007136, U37761, AC005874, AF134471, L34079, AF129756, AC005488, AL109801, AC006487, AC005081, Z99716, AB000660, AC006077, AC004467, AP000303, Z98941, AP000349, AC005412, AL031311, AC005529, AC002471,  |

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|---------|-----|--------|---------|----------|---|
|         |     |        |         |          | U91325, AL121658, AL034430, AL049776, AL132712, Z98752, AC000052, AL096701, AC008018, AP000114, AP000046, AP000010, AJ00742, AC007792, AC003029, AF207550, AC004158, AC004263, AC004999, AC000087, AL008637, Z49866, L78833, AP000501, AC004019, AL139054, AL035079, L04193, AC007225, AC004975, AL020995, AC000120, AC007707, AC002400, AF196779, AC002350, AC005332, AP000500, AL121754, AC007263, AL022328, AC007421, AC005046, AC004686, AL049646, AC004638, M87903, AL133448, AP000513, AP000044, AP000045, AL031733, AL008635, AC004750, U91323, AC0006961, AL021578, AL009181, AL109967, AC007041, AC004983, AL049830, AL034582, AF165926, AL022722, AP000694, AC007050, AC002070, AC002115, AL132987, U96629, AL023553, AL133245, AC004562, AL035400, AC002543, AC003108, AC005212, AC005156, AB003151, AL031670, AC003101, AC005261, AC006006, AC007546, AC005544, AC004797, U91321, AC005837, AC004887, AC002117, AP000556, AP000557, AL078581, AC005527, AC005722, AP000552, AB023048, AC005821, AL049795, AP000511, AP000151, AC007462, AP000553, AC002045, AC006597, AF109907, AL022316, AC006001, AC005581, AC004996, AC006966, U95742, AL080243, AC005231, AC000025, AC005562, AC006509, AC004922, AC007055, U85195, and AC007216. |
| HCUHS19 | 711 | 566809 | 1 - 280 | 15 - 294 | R44293, R40978, H24231, AL678013, T65857, F01849, AW177822, AW177816, AC006537, AC000353, AC006512, and U73166.   |
| HCUHS60 | 712 | 830009 | 1 - 272 | 15 - 286 |   |
| HCUHT21 | 713 | 577265 | 1 - 122 | 15 - 136 | AL207507.   |
| HCUHT56 | 714 | 722649 | 1 - 447 | 15 - 461 | AA459655, AC006125, AF196779, AC002425, AC005529, AP000511, AC005778, U96629, AL049576, AC005924, AC007688, AC009294, AL022726, AC005726, AC006538, AC004084, AL008730, AL021155, Z98036, U93305, AC004685, and Z99716.   |
|         |     |        |         |          | Z98883.   |
| HCUHU68 | 715 | 577795 | 1 - 212 | 15 - 226 |   |
| HCUHW54 | 716 | 730716 | 1 - 100 | 15 - 114 |   |
| HCUHW59 | 717 | 739329 | 1 - 164 | 15 - 178 | AW275339, and AL879909.   |
| HCUHY49 | 718 | 577887 | 1 - 288 | 15 - 302 |   |
| HCUJA48 | 719 | 721719 | 1 - 470 | 15 - 484 |   |
| HCUJ35  | 720 | 713818 | 1 - 490 | 15 - 504 | U91320.   |
| HCUJL80 | 721 | 577172 | 1 - 100 | 15 - 114 | AC005200.   |
| HCUJM51 | 722 | 725724 | 1 - 441 | 15 - 455 | AL821342, T62972, AL039515, AL820553, AW272389, AL135761, AL969090, AL197089, AL581006, AA955031, AA558488, AL889177, AA340581, AL250333, AL130787, AL130670, AL349130, AL857834, AL174827, AA525156, AA525331, AA507623, AW366198, AW008217, AL150934, AL590442, AA493546, AA809104, AL821945, AL733856, AW192518, N35135, AA398605, AL090377, AW069227, AL049504, AA714389, AL309943, AL754037, AC004893, AC004859, AC003689, AL109798, AC005484, AL096791, Z85986, AC005725, AC006539, AC005529, AC005913, AP000501, AC006241, AC005225, AL022322, AC005828,   |

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|  |  |  |  | AL135960, AL131016, AP000503, AL031277, AC005046, AC005832, AC004695, AC007225, AP000356, AC004707, AP000085, U95740, AL034549, AL049569, AC002314, U91327, AF134726, AL049872, AC004890, AP000359, AC005632, AC003103, AL121653, AC002495, AC005768, AL033397, AC0010205, AC002312, AL021407, Z84484, AC000379, AL133353, AC005071, AC009498, AC006450, AL034420, AC006251, Z83826, AL122020, AP000692, AC002300, AC005377, AC003033, AC004884, AC007376, AL035400, AC007226, AF001975, AL117338, AF064863, AL031283, AL049694, AC007327, AL031985, AF123462, AL009172, AC005839, U91323, AC004953, AF117829, AL133247, AP000038, AP000106, Z98884, AL034379, AC005538, AC004079, AP000350, AC006544, AC009247, AL031733, AB023048, AP000049, AC004099, AL031427, AC004990, AP000311, AL009179, AC004996, AC005231, AC004386, AC000052, AC004019, AP000347, AC004882, AC006946, AL022328, AC005048, U95742, AC007100, AL034371, AC000025, AC004263, U82828, AC003065, AC007216, AL121754, AC005011, AC004381, AP000337, AC006063, AL133448, AC006055, AL031431, AL109952, AL109623, AC009330, AL023575, AL035691, AL020997, AP000047, AC005015, AC005412, AC006530, U96629, AL049757, AF109907, AF111169, AC004087, AL132712, AL132777, AL035420, AL135745, AL031005, X98745, AF001548, AP000355, AL078463, Z74617, AC006487, AL031311, AL133485, AC004984, AL022163, AF069291, AC005369, AC005288, AL024498, AC007240, Z82215, AC005154, AP000151, AC008033, AC002470, AC004106, AC004084, AL049869, AC007736, AC004230, AC006121, AC004967, AC002369, AC007671, AC004975, AL031281, AL031670, AL035681, AC004134, AC006538, AC006064, AC004584, AC007227, AP000115, AC006001, AC003086, AC006443, AC002418, Z83840, AC005527, AL121655, AC007066, AC006430, AC004815, AL022316, AC002073, AL021155, AC004966, AC005808, AC003006, AC004638, AL109628, AC002991, AC002326, Z99128, AL080243, AP000514, AC004531, AC009542, AC006130, AC000353, AL035249, AC004383, AC004662, AC003043, AC007934, AC002039, AC004041, AC005202, Z97632, AC002543, AP000505, AF053356, AL031291, AC005736, AL031680, L44140, AC007055, AC004897, AC005899, AL133163, AL022721, AC005480, AC005747, Z83843, AB020864, and AC005823. |    |
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|---------|-----|--------|---------|----------|---|
| HCWA856 | 730 | 507283 | 1 - 311 | 15 - 325 |   |
| HCWA867 | 731 | 529658 | 1 - 112 | 15 - 126 |   |
| HCWA880 | 732 | 959937 | 1 - 415 | 15 - 429 | AA654766, AC005874, AF134471, AC005211, AC008044, AF030876, U52112, Z97054, and AF031078.   |
| HCWA892 | 733 | 523447 | 1 - 238 | 15 - 252 |   |
| HCWA898 | 734 | 529653 | 1 - 321 | 15 - 335 |   |
| HCWA899 | 735 | 660280 | 1 - 156 | 15 - 170 |   |
| HCWA900 | 736 | 655130 | 1 - 211 | 15 - 225 |   |
| HCWA901 | 737 | 920993 | 1 - 711 | 15 - 725 |   |
| HCWA902 | 738 | 723452 | 1 - 322 | 15 - 336 | AL271873, AA834816, AL053939, AW382603, AW021847, H72269, AA079260, R81017, R62710, T58562, AL003068, AA307623, AA523818, AA533660, AA515048, A1820857, AC003957, Z93023, AC005837, AC007182, AC005245, AC005933, AC004771, AC005914, AC005695, AC005102, AC003685, AP000497, AC004031, AC004132, AC003678, AL008582, AL109952, L78833, AL021546, AC005014, AL049776, AP000694, AL096701, AP000279, AL008722, AP000038, AP000106, AL078644, AC006484, AC007542, AC005899, AC003003, AC006581, AC007066, AC004890, AL096678, AF196779, AC006417, AC007192, AP000502, AL050333, AC007057, AL049872, AC005399, AL035249, AL021878, AP000116, AP000103, Z97056, AC003041, and AC002476.   |
| HCWA960 | 739 | 523354 | 1 - 301 | 15 - 315 | R91062.   |
| HCWA980 | 740 | 529498 | 1 - 286 | 15 - 300 | F02374.   |
| HCWA920 | 741 | 830796 | 1 - 299 | 15 - 313 |   |
| HCWA970 | 742 | 529357 | 1 - 352 | 15 - 366 |   |
| HCWA952 | 743 | 574929 | 1 - 235 | 15 - 249 | AA812265.   |
| HCWA993 | 744 | 523536 | 1 - 330 | 15 - 344 | AW134548, AA649218, AF022655, and AF049105.   |
| HCWA955 | 745 | 529361 | 1 - 68  | 15 - 82  |   |
| HCWA958 | 746 | 740987 | 1 - 351 | 15 - 365 | MT7919, and AL109984.   |
| HCWA951 | 747 | 751640 | 1 - 297 | 15 - 311 | AA837325, AL679390, AL679898, AA808982, AA971196, AA112924, AA856815, AA207147, AW408063, AL298079, Z97630, AC005921, AC006597, AP000030, AC004882, AC002477, AC005529, AP000163, AL121658, AL031602, AC004531, AC005071, AC004856, AC009516, S42653, AF109907, AB026898, AC004638, AC006449, AC005899, AC004831, AC007546, AL049697, U95742, Z86090, U52112, AL031005, AL031767, AP000501, AC007066, Z98946, AC005089, AC002527, AL034420, AC005846, AC005231, AC007216, Z81369, AC006581, AB023054, AC005696, Z84469, AC005768, U95741, AL033397, AL109628, AL109865, AC004770, AL079295, AL133238, AC005488, AC008124, AC006509, Z97876, AL031733, AC005971, AC008372, AC007055, AC005663, AC006445, AC004491, AC004019, U95740, AC007041, AC005695, AC004526, AC004851, AL022238, AC004801, AL246003, AL022327, |

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| AL109627, AC004854, AC005940, AC006041, AC007687, AC004808, AL035695, AC004841, Z99496, AC0016027, AC005519, AL022336, AL022165, AC005911, AL035659, Z97181, AL030996, AF111168, AC004796, AL031685, Z49236, AL109801, AC006965, AC007743, AL035070, AC005730, AC004520, AC005914, AL049694, AC005328, AP000493, AC004693, AL031003, AL049759, U85195, U95739, AC004797, AP000304, AP000047, AP000115, AL049710, AF165926, AC004813, AL021578, AC006277, and AC005821.   |     |        |         |          |  |
| HCWAK80  | 748 | 702435 | 1 - 470 | 15 - 484 |  |
| HCWAL14  | 749 | 861958 | 1 - 332 | 15 - 346 |  |
| HCWAL22  | 750 | 579046 | 1 - 468 | 15 - 482 |  |
| HCWAL39  | 751 | 861893 | 1 - 330 | 15 - 344 |  |
| HCWAM08  | 752 | 960170 | 1 - 95  | 15 - 109 |  |
| HCWAM39  | 753 | 529349 | 1 - 170 | 15 - 184 |  |
| HCWAM49  | 754 | 849980 | 1 - 495 | 15 - 509 |  |
| HCWANI17   | 755 | 966646 | 1 - 684 | 15 - 698 |  |
| AA630456, H38769, A1581223, A1003797, AL037777, H65697, AW161459, AW161879, A1191343, AA936548, A1473671, T90477, AA743968, AA299422, AA361354, A1570380, A1733856, AL047645, T94072, AA715891, A1287766, AA292719, H24953, A1054414, AW007424, AA501781, AA526424, AA577824, AA456149, A1684335, AA811150, AA54849, AA669320, AA493657, AA380781, A1866580, AA640495, A1049630, N87333, F31203, H47208, AA064978, A4678976, AA745628, A1357109, AW084100, A1308598, AW029515, A1683116, AA133013, AA714338, AA584525, A1473995, H94979, A1247101, AW022796, AF092853, AF092850, AC006160, AC005412, AC004929, AC005872, AL008636, AP000353, Z75407, AF092851, AF195658, AC002040, AC006262, Z98200, AL023513, X58139, Z54246, AC006480, AF191069, AF007563, AL121754, AC005620, A1096766, AC006530, AP000144, AC004773, AP001067, U85195, AC004990, AL031005, AC005480, AE000658, AP000313, A1034418, AC004475, AC005829, AP000194, AC006323, AL096701, AP000555, A1049569, Z84469, A1049780, AP000116, AP000050, AF196969, Z99297, AC006449, AC006650, AP000229, AP000151, AP000043, AC000017, AC005696, AC006021, AP000049, AC004851, A1034553, AC002316, AL022158, AL109952, AC005197, AP000311, AC002390, A1008718, AC007191, AL030996, AF132033, AP001068, AC003048, AC005233, A1034548, A1049779, A1035079, AC004651, AC003663, AF130343, AC002504, Z93024, AL031597, AL122023, AL121748, AL023799, AC000066, AC005231, AL035691, A1117258, A1251973, L27968, AC005544, AC004760, U52112, AL024498, Z98304, AP000010, Z85999, A1099967, AC005803, AC006251, AC004262, AB014088, AH033024, AC005037, AC002314, AC007488, D89927, AF106656, AC005178, U63630, AC005192, AL022326, A1600876, L34079, AP000506, AC002045, AB000882, AB020868, AC006241, AC003670, Z98747, AF143316, A1007204, U96629, AC007263, A1011930, AL121577, AL021939, AC005280, AC007193, AP000115, AC002375, U52111, AL049835, AC006538, AC004492, AC005820, AC004923, U02047, AC003992. |     |        |         |          |  |



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|----------|-----|--------|---------|----------|--|
| HCWAAN55 | 756 | 928116 | 1 - 375 | 15 - 389 | AC004953, Z98751, AC006088, AC005690, AL022238, AL022399, AC004819, AL021451, AC005625, AP000493, Z94161, AL121825, AC002468, AC004815, AC006130, AC004703, AL023803, S65785, AL035703, AL133035, AL021453, AL109798, AL023584, AC006529, AC006576, AL031295, AL009181, AL096801, AC005004, Z82212, AC004202, AC002425, D64108, M19508, AB009668, A012008, AL008716, AC005264, AC020663, Z99127, AP000314, AL031767, AP000502, AC007011, AL049843, Z93244, AC004638, AC008123, AP000557, AC005006, U91326, AC006359, AC002039, AC005952, X96421, AP000694, AC004539, AL035664, Z73963, M90058, AC007270, AC005196, AL078581, AC005049, U47924, AC002306, AL030998, AC004876, Z97353, AF134726, AC004841, AC002091, and AL035462. |
| HCWAAP63 | 757 | 523259 | 1 - 409 | 15 - 423 | AL022067.  |
| HCWAAP66 | 758 | 889439 | 1 - 303 | 15 - 317 | AL216990, AL076729, AC007381, and AF109907.  |
| HCWAAR05 | 759 | 932623 | 1 - 397 | 15 - 411 |  |
| HCWAAR63 | 761 | 523255 | 1 - 392 | 15 - 406 |  |
| HCWAAR76 | 762 | 529652 | 1 - 488 | 15 - 502 |  |
| HCWAAR84 | 763 | 529241 | 1 - 199 | 15 - 213 |  |
| HCWAAT16 | 764 | 523125 | 1 - 326 | 15 - 340 | AC005820.  |
| HCWAAT59 | 765 | 529236 | 1 - 339 | 15 - 353 |  |
| HCWAU26  | 766 | 849902 | 1 - 263 | 15 - 277 |  |
| HCWAU89  | 767 | 589836 | 1 - 333 | 15 - 347 |  |
| HCWAUV75 | 768 | 849976 | 1 - 396 | 15 - 410 |  |
| HCWAU41  | 769 | 542388 | 1 - 336 | 15 - 350 |  |
| HCWAZ16  | 770 | 529227 | 1 - 328 | 15 - 342 |  |
| HCWAZ43  | 771 | 849892 | 1 - 496 | 15 - 510 |  |
| HCWAZ66  | 772 | 523243 | 1 - 434 | 15 - 448 |  |
| HCWAZ73  | 773 | 523299 | 1 - 284 | 15 - 298 | AL720968.  |
| HCWAZ91  | 774 | 529226 | 1 - 443 | 15 - 457 |  |
| HCWBA18  | 775 | 529224 | 1 - 179 | 15 - 193 |  |
| HCWBA21  | 776 | 937631 | 1 - 394 | 15 - 408 | TS91632, and TS93900.  |
| HCWBA49  | 777 | 723359 | 1 - 327 | 15 - 341 | AL695904, AL652833, and AC005576.  |
| HCWBA50  | 778 | 835532 | 1 - 326 | 15 - 340 |  |
| HCWBA55  | 779 | 529222 | 1 - 296 | 15 - 310 |  |
| HCWBA64  | 780 | 715579 | 1 - 265 | 15 - 279 |  |
| HCWBB27  | 781 | 967045 | 1 - 392 | 15 - 406 | AL709174, AL932902, AA078084, AW194802, H54292, AA085863, AL889612, AL623423, AW236342, AL268812, AA563770, AA573189, AA252763, AL824562, AA526779, AA669816,  |

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|         |     |        |          | AA8469335, AW190760, AA917683, AL282336, AL889440, AL042756, AL537030, AA176603, AL291124, AL312149, AA515224, AA179706, AL291268, AW270258, AA604514, AW008212, AP000689, AC005808, AC005969, AL023553, AC012627, AL023575, AL033376, AC006312, AL109654, Z84721, AC007066, AC006360, AC005304, AC002400, AC005480, AL078581, AL031985, AC005004, AC005682, AC005317, AC002312, Z84487, AC007537, AC005206, AC005358, AL136295, AF053356, AC004087, AC002316, AC002558, AC002319, AC006241, AC003663, AC005011, AC005667, AC002310, AL049745, Z93930, AC007055, AC006040, AC005412, AC005015, AC005399, AC005519, AL021939, AC007934, AC006211, AL031848, AF003626, U91326, AC012384, AL096763, AL117354, AC002302, AF027550, AC004263, AC005041, AC003982, AC007151, AL031666, AC002072, AL031662, AC000752, AL008582, AL049759, AL121655, AC005324, AC004966, AL121603, AF000359, AC007626, AC007666, Z83826, AL035422, AC002330, AC006449, AC007536, AF111167, AC002544, AL031670, AC005081, AP000344, AC005516, AC003664, AC005756, AL008723, Z97630, AC007216, AC004076, AL022320, AP000552, AC006953, AC006160, AL009181, AP000350, AC005379, AP000355, AC007707, AC002984, AC004254, AC006430, AL246003, AL022336, U85195, AC005069, AL049869, U07563, AL13448, AL031587, AC005632, AC006450, AC007371, AC007050, AC005102, AL031584, AC004821, AL022312, AC005696, AL020996, U95740, AC005899, AC005562, AL022318, AC005874, AF134471, AL035681, AL021578, AC004972, AB006658, Z99716, AC004983, AC004752, AL022326, AC004019, AC002425, AL109627, AC009516, AF109907, AL021394, AC006571, AC007363, AL033521, AL0000813, AC004540, L77570, AC004929, AC004000, AC005291, AC004383, AP001038, AC004963, AC004253, AC002565, AC004106, Z98051, AC006088, AC005844, Z94056, AC005104, AF001549, AL049776, Z93023, AL035405, AL031589, AF064861, Z83840, AL050321, AL080243, AC005747, Z84480, AC002430, AC005839, AL008635, AC004771, AL031281, AC004894, AB023049, U80017, AL031393, AL049712, AL121934, AC006539, AC018633, AC005878, AC004841, AC003950, AL109628, AP000512, AF111168, AC004560, AL121825, and AC007227. |
|         |     |        | 15 - 346 |  |
|         |     |        | 15 - 222 |  |
|         |     |        | 15 - 355 |  |
|         |     |        | 15 - 375 |  |
|         |     |        | 15 - 345 |  |
|         |     |        | 15 - 327 |  |
|         |     |        |          | AF187320.  |
|         |     |        |          | R91175, AA347930, AA347927, AH31688, AA078849, AL690686, AA328169, R70333, AW238345, AW078869, F23239, AA364224, AA177120, F04987, R400556, AA843450, AL160117, AW088984, D29495, AA449523, H79261, AL561255, AA310868, AW272758, AL185122, R31557, R36315, AL679442, AL679952, AA449088, T95909, AA704643, H78230, R77905, R69639, AW102849, AA347101, AA985357, AA381463, AA810283, AA338486, AL610376, F33566,  |
| HCWB63  | 782 | 667283 | 1 - 332  |  |
| HCWB616 | 783 | 529350 | 1 - 208  |  |
| HCWB628 | 784 | 584778 | 1 - 341  |  |
| HCWB632 | 785 | 574909 | 1 - 361  |  |
| HCWB634 | 786 | 573188 | 1 - 331  |  |
| HCWB61  | 787 | 728666 | 1 - 313  |  |

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|---------|-----|--------|---------|----------|---|
|         |     |        |         |          | AA363989, N29578, AA809029, AA503258, AA605032, T93015, H96730, AA828042, A1633007, AA501809, E50197, H47539, AA603445, AL044858, AP000493, AL078624, AC020663, AL135744, AL049780, AC009405, AL049694, AL121595, AC005225, AC005829, AC004975, AC004526, AC006530, AC016830, AL031447, AC002985, AF000555, AC004919, AC004685, AC004972, AC005231, AC002395, AL049653, AL078614, AF111170, AC007050, AC005488, AF165926, AC022326, AC001982, AL035415, AL031587, AL035699, AF134726, AL031577, U95742, AC006285, AP000556, AP000557, U91321, Z98172, AP000567, AC003101, AC005544, AC016027, AC000441, AC007216, AC005747, AC005037, AL117498, AC004821, AC000026, AL035438, AL021918, AC004167, AC005821, AC005291, AC003002, AP000502, AL031665, AC008372, AC011311, AC007537, AL031767, AL049869, AC005355, AC006014, AC004185, AL021155, Z75407, AF124523, AC005081, AF111168, AC002070, AF048729, AC004678, AL034400, AC006011, AC002059, AC005245, AC007308, AD000492, AL031848, AC004150, AP000159, AC005772, AC007546, AJ246003, AC005740, AC002301, AC000085, AC005332, AC005015, AC003071, AC007676, AC004886, AC005324, L17418, AC004382, L44140, AL022329, AL133245, AC005839, AC000052, AC002425, AC004596, AL096701, AC002303, AC006458, Z81308, Z95331, AL133243, AC006080, Z49236, Z99754, AC004825, AL031255, AC005500, AP000509, AC007536, AL132992, AF001549, AC004884, AC004491, Z93021, AC009275, AL109865, AC005874, AF134471, AC005776, D84394, AL049776, AC005326, AC005516, AL022315, AC007160, AB011134, AC006238, AL049811, AL035696, Z97634, AL118510, AC008394, AC006112, Z98051, AC007064, AC004963, Z75746, AC004262, AF025588, AC004890, AF196970, AL035587, AC004662, AL049830, Z99716, AL031295, AL009610, AC002996, AC007199, U82668, U80017, Z75889, AC006487, AL034549, AL117351, AC006047, AC004659, AC002984, AC004777, AD001527, AC004019, AP001060, AL049825, AC005924, AL034451, AF196971, AC006540, AP001054, AC007066, and AC009516. |
| HCWBC69 | 788 | 849971 | 1 - 290 | 15 - 304 |   |
| HCWBC71 | 789 | 784052 | 1 - 69  | 15 - 83  | AA827967, and Z93783.   |
| HCWBC81 | 790 | 849974 | 1 - 248 | 15 - 262 |   |
| HCWBD54 | 791 | 706513 | 1 - 238 | 15 - 252 |   |
| HCWBE25 | 792 | 529216 | 1 - 127 | 15 - 141 | AF150169, and AF111167.   |
| HCWBE37 | 793 | 542403 | 1 - 307 | 15 - 321 | Z54343, and AL109760.   |
| HCWBE49 | 794 | 932196 | 1 - 406 | 15 - 420 |   |
| HCWBE51 | 795 | 782317 | 1 - 418 | 15 - 432 |   |
| HCWBE58 | 796 | 773587 | 1 - 161 | 15 - 175 |   |
| HCWBE69 | 797 | 723717 | 1 - 435 | 15 - 449 | W45011, AL191804, AA773406, AA361071, AW402184, AA853510, AA314671, AW401537, AA345752, AA378756, AA346880, AA367230, AW405965, T80869, T72713, N23610, R19889, R94160, N55688, Z43415, R18379, W21269, AW403145, W19964, AA325636, AW401713, N57425, AA313360, N57316, W46199, AA6070088, AA313277, AW160492, AW247594,  |

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|        |     |        |         |          | AL035943, AW245750, AL035940, AW247213, AL036938, T08768, AA340025, AA295206, W22826, W22385, AW363955, W40348, AW402954, AA377322, R12313, W17327, R58256, N87501, AW366672, AL034239, AA204793, AL033895, D31767, and AF085348.   |
|        |     |        |         |          | AC006465.   |
|        |     |        |         |          | AW450440, AW444820, and AW301590  |
| HCWB71 | 798 | 688011 | 1 - 393 | 15 - 407 | AL040268, AA523203, AA523204, A1114755, A1160875, AA506952, AW019964, AW265274, AA368329, A1609972, A1753536, A1635677, A1690335, AA807704, AL047480, H40478, AW237905, AA551204, AA837771, AW029626, A1749306, A1888050, AL048002, AA351868, A1982994, AW341955, A1114645, AW263867, AL041895, A1453160, A1564294, AA831997, AA632765, AW471467, H87766, AA629939, A1348780, H43183, A1799421, N45056, AL042373, A16169469, AA3205291, A1378437, A1189998, A1750692, AA634533, AA683069, AA604797, A1800345, AA642289, AA207147, A1345394, AW023376, AA788904, W27084, N22501, A1671077, A1929298, A1929825, H15241, AA670108, AA741301, AW007424, AA225100, AW157180, AA827383, A1537480, W96522, A1915068, A1114543, A197926, AC004686, AC004242, AL031662, AC006312, AC005355, AC005189, AC005081, AL021917, AC005338, AC005736, AB023051, AP000512, Z83826, AP000501, AC007510, Z84481, AC007363, Z83838, AC007488, AC007225, AL079295, A1139054, U196629, AP000125, AC006549, AC005821, Z93023, AL031286, AL117694, Z82244, L13176, L77570, AF024534, AP000252, AP000098, AF064866, AC005969, AC005899, AC007285, AC005212, AP000515, AL133289, Z97832, AP000212, AP000134, AC002395, AC005772, AC005231, AC005183, AL007151, AC012384, AC002302, AC005911, AP000031, AF031078, A1136297, AC005940, AP000558, AC004253, AF029308, Z98036, AC005086, Z85996, AC004596, AF030876, Z98941, AC007688, AC005952, AL117391, AC005778, AC002347, A1246003, AC006070, AC005412, Z79997, AP001053, AL035405, AL035587, AC005972, AC004030, AC007387, Z97352, AL022336, AC004913, Z97053, AL078611, AC005902, AL049872, AC004531, AC004973, AC004813, AC005670, AL109984, U29953, Z97184, AL031284, AC002563, AP000014, AP000692, AF113694, AL117344, AC005839, L78810, Z98743, AC004779, AL031686, U55184, AL109628, AP000172, U62631, AF050154, AC012085, AP000057, AP000355, AC007617, AC007226, AL031311, AC006211, AL049692, AL008718, AC002400, AC005271, AP000502, AC005529, AC005358, AC002527, Z81369, Z95115, AC007025, AC005632, AC002425, AF111167, AC002350, AC006120, AL031985, Z98256, U91318, AL049631, AC000994, Z84484, AL022318, Z99716, AF053356, U43572, AC004912, AC007455, AC006111, AL121652, AL035681, AC000097, AL034451, AP000553, AL049845, AL009172, AC005181, AC006547, AC005218, AL035398, AC004611, AC005565, AL021391, AL022238, AC020663, AL035685, Z84483, AC004999, AC004967, AC002984, AF129756, AC003070, AL031123, AB014085, AC004187, AL031282, AC006571, AC003972, Z83844, AL050348, AL121603, AC007091. |
| HCWB76 | 799 | 968515 | 1 - 158 | 15 - 172 |   |
| HCWB06 | 800 | 954670 | 1 - 60  | 15 - 74  |   |
| HCWB03 | 801 | 920530 | 1 - 289 | 15 - 303 |   |

|                    |            |                  |                    |                      |  |
|--------------------|------------|------------------|--------------------|----------------------|--|
| HCWBG40            | 802        | 676588           | 1 - 540            | 15 - 554             | AC002565, Y18000, AL0009175, AC005049, AL031432, AL031003, AC0009516, AL031276, AL096761, AC005095, AC004662, AD000092, AL049588, AC002045, AC002082, AL035610, AL023803, U80017, AC0007731, AC0007358, AL096775, AL096774, AC000118, Z98304, AC005031, AL109623, AL050341, AC005500, Z99943, AC004876, M84472, AL021546, AL13245, AC004834, AF106656, AL031846, AC004149, AL022719, AC003957, AL034553, and AP000331.   |
|                    |            |                  |                    |                      | AA046906, AA157876, AA047057, AA017583, AA019793, AA046908, AA661583, AL872229, H62123, AW150209, AL452836, AL521019, AL469485, AL567676, AW243817, N74555, AW117860, AL253347, AA587835, Z03928, H68343, AL358505, AA557509, AL096775, AL050318, AW273146, AL570067, AL819419, AA572813, H82594, AA640305, AL050318, AC007537, AC007421, AC007637, AL096775, AP000512, Z98884, AC002126, AC005529, AP000501, AC000353, AL109758, AC006511, AC007536, Z83844, AF001549, AL050307, AC004031, AC004491, AC004922, AC003684, Z93017, AF053356, AC002470, AL121603, AC004000, AC004805, AC006449, AC005694, U95742, AC005527, AC005488, AL021391, AB001523, AC007216, AC002544, AP000116, AC005399, AP000555, AC005274, AC012384, AC004686, AC004477, AC005632, AC005484, AC008372, AF134726, AC002039, AC005089, AB023051, AC005519, AC007055, AC006071, AL031295, AL011930, AC004890, AC005067, AC002044, AC0005971, AC004099, AC004659, AC004985, AC005695, AC004913, AP000114, AP000046, AC000487, AC004859, AC004876, AL020995, AC006125, AL031680, AL051072, AC005911, AC006344, AL031311, AL049694, AL031276, AF207550, AC007387, AC002425, AC004647, AL109984, AC005412, AC004878, AL050341, AC005231, AC007226, AL096703, AC004552, AC006241, AC004887, AC002310, AP000065, AC005829, AC007878, U91326, AC006130, AL021878, AC005358, AP000502, AC005913, AC004765, AC003086, AF001550, AC005531, U85195, AC004854, AF196969, AL078581, AP000088, AC006571, AP000133, AP000211, AC004983, AC007376, M63796, AC005037, AC000046, AL049759, AC000038, AE000658, Z98200, AC004019, AL031663, AL136504, AC005744, AC000025, AC005746, AC005015, AL096701, AL049795, AC004520, AL133246, AF196779, Z83822, AC004796, AL035659, AL246003, AC006581, AC002418, AP000045, AP000113, AC006512, AL031681, AC005779, AL109952, AC004242, Z84469, AC0020663, AC004929, AC016025, AL049780, AC005081, AP000302, AC003042, AC0022785, AF111168, AC005180, AC006236, AL021918, AC007686, AC006273, AL031594, AC006121, AC005004, AC004386, AL021977, AL034371, AC002350, AL109628, AC006255, AF165926, AL049830, AL031733, AC002477, AF194065, AC004216, Z98742, AL008582, AP001046, AC005666, and AL009181. |
| HCWBG41<br>HCWBG43 | 803<br>804 | 839014<br>689743 | 1 - 283<br>1 - 197 | 15 - 297<br>15 - 211 | W60516, T39598, AL284640, AA557325, AL135829, AA916039, AW406755, AA513999, AL10770, AA826303, AW074398, AL205126, AA551509, AW274349, AL025244, AW023672, AW265385, AA483034, AW403196, AW301350, AA720702, F35113, F36273, AL133164.   |

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| <p>             AI888518, AA559290, AW440810, AL138265, AI334443, AI064804, AW249224, AI802526, AI890928, AA610491, AW172727, AU053816, AI890570, AU036523, AA111909, AA525416, AU040130, AI610920, F19258, AA587604, AA958824, AI435544, AA587256, AI281881, AW227758, AI016000, AW023117, AW023511, AW040913, AA831388, AA340960, AW301818, AI358343, F29989, AI566878, AI177061, AI653905, AW238278, AI358571, F34460, AI608676, AI799642, AI040547, AI133262, AL037554, AL079683, AI358571, F34460, AI608676, AA434484, AI287528, AI471481, AI041368, AI955323, AI365988, AL042753, AW023389, AA501784, AI307426, AI962058, AW166815, AA515051, AA654627, AI324540, AI048925, AI251002, AI929531, AW339687, AI676782, AL042420, T90248, AI623696, T08638, AW265294, AA904218, F27707, AA630352, N43757, AI635272, AW249835, AI339850, AI610159, AA828064, AI890923, AW162049, AW168342, AI859251, AI134972, AW361583, AI446464, AI037914, AI567674, AI003743, AW022379, AI904894, AA229785, AI653636, AI049722, AI273185, AI561255, AI917271, AW440836, AA581903, I51997, AF015167, X75335, S75201, M37551, UI2580, AC000159, UI2582, UI4719, UI4718, UI4717, UI4716, UI4714, UI4715, UI2583, UI4713, D83989, Z22650, UI4711, UI4712, AF077058, UI4689, AF015158, AF015170, M87918, Z49816, AF015168, AF015169, AC005385, AP001038, AC004955, UI4685, UI4686, UI4687, UI4688, UI4691, UI4699, UI4710, U95740, L35531, AC000951, AP000140, AF015166, AC002542, AC006344, A39972, Z98052, D26067, L81759, AP000088, AF134726, AC001530, Z68269, AC005887, AF146367, AL031577, AL031274, AC006128, AP000193, AC006049, UI4692, UI4702, UI4707, AC004913, AF001552, Z81365, AC002377, U73684, AC0023056, AI110150, AF165176, AP000311, AL022322, AC005156, Z74696, U02054, AC002492, X01471, I08362, AF009044, AL121603, AF124523, Z69921, K02043, AC004506, AP000117, AC001164, X79699, AC005682, AF036682, AF015160, S75337, AL024474, Z98750, AF015171, AP000954, X04981, AC004494, AL110292, AC004915, U50570, AC006487, U02048, AC005031, AC004866, X88791, I25678, AC008115, AP000513, AC004477, AL050338, AC004785, AC005401, AF126531, AL031720, AL031009, AL080242, AL031005, AL022326, L08835, AL096862, AC005015, AC005755, AL021878, AC007367, AC007055, AL136297, Z98257, AB023049, AF120990, AF196969, AF078904, AP000355, AC012384, AC006285, AF141976, AC005594, Z97183, AC006449, AL035458, AP000459, AL034452, Z73496, U80017, AL034420, AC002314, X74558, AP000958, AP000111, AP000043, AC005585, AP001037, U49740, Z84814, UI4700, AI016025, AC004745, Z85997, AL049843, AC004990, AC007637, AC004150, AP001054, AC005356, AC002115, AC006539, AC002072, AC005086, AC003070, Z83819, X06123, AL023494, AC005484, Z98744, AC005911, AC004492, AF019114, AF010317, AL132777, U62317, AC004241, X60653, AC007774, AC005787, AC006030, AL049830, AC005765, Z93244, AL021069, AC004984, AC006063, AF190465, AF190473, AL035460, Z98941, AC007392, AL110502, Z95113, AC005280, AP000365, AC005228, AL031120, AP000349, AC005754, AC000080, AL049836, and AC004263 </p> |  |  |  |  |
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|---------|-----|--------|---------|----------|--|
| HCWBH77 | 805 | 529229 | 1 - 279 | 15 - 293 | AA528467, AI865264, and AI267855.  |
| HCWBH91 | 806 | 789318 | 1 - 118 | 15 - 132 | AC002316.  |
| HCWBH17 | 807 | 954153 | 1 - 171 | 15 - 185 |  |
| HCWBH24 | 808 | 529211 | 1 - 112 | 15 - 126 |  |
| HCWBH37 | 809 | 967717 | 1 - 335 | 15 - 349 |  |
| HCWBH53 | 810 | 934909 | 1 - 375 | 15 - 389 |  |
| HCWBH77 | 811 | 529238 | 1 - 217 | 15 - 231 |  |
| HCWBH90 | 812 | 921653 | 1 - 342 | 15 - 356 |  |
| HCWBH02 | 813 | 917300 | 1 - 408 | 15 - 422 |  |
| HCWBH27 | 814 | 784524 | 1 - 128 | 15 - 142 |  |
| HCWBH61 | 815 | 849967 | 1 - 320 | 15 - 334 |  |
| HCWBH66 | 816 | 529228 | 1 - 87  | 15 - 101 |  |
| HCWBH75 | 817 | 935579 | 1 - 470 | 15 - 484 | AL022328.  |
|         |     |        |         |          | AI809175, TS3160, TS3159, AA284460, AA995373, AI355246, AI634377, AI926393, AW089625, AA846923, AW008184, AA226356, AI283938, AI366180, AW272815, RG7701, AI357762, AI434653, AA856815, W45274, N60775, AA084504, F35684, AI690379, AW104116, AI697239, AA526643, AI697242, AA558366, AI697235, AA535216, AA484022, AA555232, AA714110, AI73671, AW192419, AI869797, AI961983, AA584756, AI417469, AI859906, AA568314, AI753904, AI568376, AW419389, AA728874, AI927275, AA838161, AI932871, AI041375, AI800426, AI281818, AI431513, AA655037, AI818197, AI817658, AA558404, AA613850, AI678581, AI370170, AW020130, AI521525, AI689198, AA654464, AI537368, AI858889, AA582746, AI053398, AA491423, AW303872, H71678, AI687972, AA297961, AW249660, AA290570, AI299442, AA610433, AI538236, AW265688, AA581240, F09337, AA601712, AI270647, W72860, AI888298, AI491765, AA642809, AW028950, AA515048, AW238341, AA115865, F30158, AW019964, T47138, AI926102, AA488687, AI612724, AI476460, AA523695, AA814503, AC005274, AC008072, AC002316, AC003663, AC004139, AC004884, AC012384, AC005288, AI022165, AC005291, AC005082, AC002554, AI008718, AI022162, AP000466, AC002504, AC035587, AC002430, AL035460, AL049776, AC007298, AC005914, Z82203, AC007384, AC005369, AC002404, AI135960, AI131016, AC003687, AC003046, AC007536, AC002302, AI09827, AC005046, AP000156, AC004448, AP000501, AC007055, AC002378, AC004242, Z93023, AL049539, AC006312, AP000555, AC008040, AI133312, AI109653, AC005393, Z98304, AC005280, AL049780, AI133448, AP000033, AC004263, AC006011, AL049872, AL031055, AI022163, AC006441, U78027, AI133245, Y18900, AI109984, Z84474, AL022398, AL031777, AL035422, AC005624, AI1022319, AC004882, AL035405, Z93241, AC011005, AC002477, L43411, AL031293, AL031121, AFI78030, AC005038, AC004841, Z98048, Y10196, AI109618, AC004801, AF222686, AI246603, AC006581, AC007151, AP000014, AC004686, AC005920, AL133275, AL049576, AC003108, AI132718, AC004706, AI022318, AC005529, AI133500, AC005952, Z98044, AC004887. |

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|---|--------|---------|--|----------|--|
| AC006023, AC005516, AC002492, AC005377, AC004655, AC004953, AL078638, AL031427, AC005932, AC000029, AC005859, AC003043, AC005971, AL031678, U07363, D87675, AC005066, AL121603, AC003690, AP000704, AC007263, AC004692, AC005620, AL040697, AL031662, AF038458, AL021917, AC007666, AL022322, AL009181, AC007731, AC007785, AP000121, AP000053, AP000168, AL117338, AC002116, AL034408, AL034376, AC005500, AL109839, X06292, AC005164, AC005229, AC006061, AC002310, AC002476, AC005388, AL022721, AC006473, Z83846, AC003661, AP000226, AC005800, AC005031, AC006084, AP000087, AF124523, AC004913, U85195, Z83844, AC005694, AF118808, AC005332, AL040793, AL021579, AE000658, AC005015, AC007216, U47924, AC004999, U80017, AC012627, AP000049, AP000116, AL122020, AL035684, AC005519, AC006651, AC003004, AC005736, AC002312, AC004150, Z98884, AL031587, AP000491, AC009731, AC005005, AC008101, AL049838, AC016831, AP000084, Z95116, AL022323, AC006370, AP000311, AC005209, AC005632, AC000085, AC002350, AC005722, AL021707, AL096763, AC004964, AF001549, AL080243, AL021918, AC002119, AL049869, AC005057, AF048729, AP000088, AC004787, AC005201, AC003041, AC007690, AC008126, AL034423, AL049743, AC004103, AC007421, AC008079, AL137100, AL049745, AL009172, AC005691, AC005277, AC004685, AB023049, AL035420, AC007324, AL021546, AC005231, Z99716, AC003029, AC005486, AP000552, AC004386, AP000359, AL031311, U91321, and AL049834. |        |         |  |          |  |
| AA373861, AL181490, AW128881, AA554659, FU1222, AL049701, AA496309, AA888638, AA757869, AL354333, AA661883, AA298192, AA225358, AW080215, AW022897, AW132097, T30894, AL035893, AW271135, AA295874, AA295865, A1866971, AA206594, AL146266, AW249720, A1889426, AW410481, T94592, N24836, AA352521, AC004139, AL031667, AC005880, AC006077, AC004933, AC006463, Z84487, AC005060, AL035079, Z98884, AL023798, AC002425, D63861, AC004500, Z98941, AL021391, U62292, AC005828, AL040779, AC008928, AC005332, AP000065, U63721, AC0016027, AF027390, AL035638, AC016830, AC005102, AC004884, AC002310, AC006312, AL031283, AC008101, AP000305, AL031407, AC005523, AL031276, AC005231, AL132712, Z98946, AC002477, AC005972, AC006965, AP000053, AP000168, AL109628, AC005899, AP000047, AP000326, AC005763, AC006509, AC008009, AP000501, AL096808, X14278, AL049643, AP000054, AP000169, U47654, AP000324, AL109801, AC008372, AC009501, AC005755, D87675, AL109627, AP000513, AP000115, AC005877, AC007011, AC005280, Z76735, AC007285, AP000116, AC005375, AB023049, AC006057, AL035685, AC005071, AC005300, AC004985, AC007869, AF064756, AC004738, AC016026, AC005291, U91323, AC002107, AL023553, AC004491, Z99570, Z93241, AC018769, AC006254, AC007172, AC004975, AL035249, Z93017, AC005261, AC006041, AP003529, AC005028, AC004273, Z85996, AC005666, AC005295, Z82206,  |        |         |  |          |  |
| HCWB181 818   | 849977 | 1 - 165 |  | 15 - 179 |  |
| HCWB186 819   | 719521 | 1 - 380 |  | 15 - 304 |  |
| HCWB138 820   | 935481 | 1 - 336 |  | 15 - 350 |  |



|         |     |        |         |          |   |
|---------|-----|--------|---------|----------|---|
|         |     |        |         |          | AB015355, AC006079, L78833, Z49236, AL022238, AC009399, AC000394, AC005971, AC005632, AC003007, AC003108, AC002106, AC006211, AC005014, AL132708, AC005998, AC007786, AL031685, AC002492, U78027, Z83838, AP000008, AL023575, AC002534, AC004605, AC004841, AC004851, AL021528, AC006010, AL133163, AC005696, AL050318, AC006501, AL096791, AP000212, AP000134, AL031662, AC007041, AP000512, AL054422, AC005875, AC004913, AC005328, AP000122, AL049692, Z83844, AC005914, AC005015, Z98200, AC006449, AP000359, AL078581, AC002395, and AL135960.   |
| HCWBL41 | 821 | 660457 | 1 - 372 | 15 - 386 | R20206, T82390, T48770, AL039515, W07542, AA757646, N54937, H82873, AA847341, AA525156, AF191408, AL791720, AL049999, U91323, AC007546, AC005354, Z98946, AC004983, Z84474, AC006344, AB001523, AL031311, AC006354, AP001054, U70065, AC005696, AC002492, AC004771, AC003906, Z84480, AC006464, AL035086, AP001052, AC004914, AC007421, AF053356, AC004825, AL031577, AC005089, AL031587, AP007876, AC006512, U91327, Z61071, AC005529, AC005839, AC004797, AC002077, U78027, Z85987, AF165926, AC005288, AC004383, AC006332, AP000133, AP000211, Z86090, AF196972, AC004692, AC004674, AL049776, AL035422, AL049795, AC004883, AL008731, Z97987, AC004967, AC005746, AF023268, AC005372, U45945, M81181, AC004638, Z82190, AC005527, and AL133448.   |
| HCWBM04 | 822 | 861842 | 1 - 329 | 15 - 343 | AC002464, Z85999, AF002223, AP000033, AC004253, AP000102, AP000260, and Z97196.   |
| HCWBM50 | 823 | 577712 | 1 - 347 | 15 - 361 |   |
| HCWBM95 | 824 | 849932 | 1 - 386 | 15 - 400 |   |
| HCWBN06 | 825 | 924638 | 1 - 360 | 15 - 374 |   |
| HCWBO10 | 826 | 842038 | 1 - 331 | 15 - 345 |   |
| HCWBO23 | 827 | 964590 | 1 - 165 | 15 - 179 | AC007130.   |
| HCWBO94 | 828 | 574861 | 1 - 361 | 15 - 375 | AC007162, and AC005212.   |
| HCWBP27 | 829 | 684336 | 1 - 317 | 15 - 331 | AF205588, and AL024498.   |
| HCWBP56 | 830 | 733662 | 1 - 303 | 15 - 317 | AW022796, AA847341, AW023390, AL308529, AL554399, AW029626, AL888050, AL119063, AL307563, AL520925, AL475294, AA358531, AA496041, AA935827, AA687084, AL076729, AA419014, AL002863, AL446574, AL067012, AL571804, AA661554, AL798521, AL571094, AW070901, AL860648, AA084320, AA525156, AA768179, AW129188, AA632355, AL752977, AA218684, AA3581317, AL049680, AA446931, AL196994, AL805699, AA34891, AL805373, H05066, AA761454, AL171400, H24331, T52366, AW338376, AL805556, AL890297, AA419107, AW131109, AW190437, AL734076, AL732102, AL732101, H23238, AL734075, AA828840, AA551548, AL445338, AL572680, AA749196, AL124558, T07943, AA772818, AL802268, AA873661, AA484191, AA524846, N55076, AA832108, AL003086, N59248, AA436949, AL343808, AL149177, W27084, AL570067, R79396, AA496042, AL363336, AA428991, AL000314, AL361401, AL174827, AL020777, AL114645, AA385652, AW362702, AL207534, AL668566, AL921744, AA513916, AA420703, AA225566, AA225494, AL446618, AA632556, AL434103, |

|  |          |         |        |     |        |
|--|----------|---------|--------|-----|--------|
| AA229030, T47075, AA363957, AT733523, T03613, AA775880, H94598, AI884404, AI049504, AA584360, AA632765, AP61264, AI354377, AI038533, AI471467, AW169469, AA078830, AP925812, H59797, AI281622, AI137946, AA018258, H64884, H64858, W04260, AA551030, H59836, AA736713, AA4669230, AA743995, AA745336, AA364147, H87818, AW007424, AI133448, AI049869, AC005755, AC005377, AC005837, AC005911, AC006163, AF139813, AC005412, AC003108, AC002316, AC005808, AC004228, AB023048, AC006449, AC005543, U82828, AC004081, AC007566, AI031284, AF038458, AI096701, AC005520, AC005225, AI022238, AI033658, AC005280, AI109758, U91323, AF001549, AC004851, AC005787, AC005516, AC007938, AC004884, AC007011, AC004812, AD001502, L78833, AF000510, AC006261, AP000692, AC005046, AI133246, U80017, AC004686, Z84721, AC007388, AC005932, AI022316, AC004067, AC005632, AC004985, AC005488, AC002331, AC005971, AC005772, AC004991, AC007066, AC002350, AC005102, AI0343431, AC005031, AC006948, AC005484, AP000511, AC006088, AI023883, AC004938, AC006946, AI031589, AC002465, AC004447, AI117258, AP000355, AC005104, AC004638, AC006064, AI132712, AC005406, AC005553, AC005071, AC004999, AC009509, Z95113, AC007014, AC005181, Z95703, AC010071, AI049745, AC007666, AC005530, AC005089, AI049569, AI079342, AI031311, AI022322, AC004816, AI009179, AI049778, AC000353, AI080243, AC005324, AC007688, U89337, AI229041, AI031296, AC003689, AC006062, D87675, AI121603, AI049839, AI133371, AI049694, Z83822, AC007546, AI021453, AI050317, AC007462, AC007314, AC007312, AC005409, AI031282, AC007227, AC005846, AC003025, AC006487, AC007676, AI020997, AC004032, AC005600, AC006441, AI008716, AC004099, AC005399, AF152465, AI031681, AI031291, AC000070, AC003006, AI122020, AC002543, U91326, AC002079, AC002563, AI033548, AI050318, AP000089, AP000141, AC005375, AC007877, AI137100, AC002073, AI023880, Z98950, AC006315, AC006512, AI033397, AC005355, AC005529, AC005803, AI021578, AC002044, AC003992, AC006166, AC005730, AI109798, AI031985, AI049757, AC006075, AF165926, AC006509, AC006539, AI135960, AI131016, AC004968, AC005694, AI132826, AC005663, AI035072, Z99716, AC005326, AC006116, AC020663, AC002530, AC005533, AC004491, AF030453, AI049646, AI033521, AC009396, AC003688, AI031666, AC005821, AP000152, AP000065, AC009247, AI035086, AB023051, AC003086, AC002059, AI021394, U91322, AI096791, L44140, U47934, AC006597, AC005667, AI136295, AC007201, AC007632, AC000105, AC005779, AC005088, Z75407, AI049780, AP000035, AF011889, AI139054, AI008635, AI035587, AC004494, AC007055, AC004020, AC008984, AB019441, AC004226, AI031587, AF109907, AC006101, AC005326, AB023049, AC004695, Z97876, AC008012, AC005915, U66059, AC003007, AC006014, AC005666, AP000512, and AC005255. | 15 - 384 | 1 - 370 | 757467 | 831 | HCWB70 |
|--|----------|---------|--------|-----|--------|

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|---------|-----|--------|---------|----------|--|
| HCWB74  | 832 | 765881 | 1 - 319 | 15 - 333 | R59942, AC002301, AP000045, AP000113, AC005399, AC007327, AP000510, Z84469, AC004520, AL13163, AL035079, AC006163, AC004032, AB023048, AL013131, AC003030, AC005081, AC006461, AC004938, AC005015, AC003010, and L44140<br>AA564671, AC002045, AC002039, AC002544, and U91326  |
| HCWBK5  | 833 | 849969 | 1 - 365 | 15 - 379 |  |
| HCWB003 | 834 | 920886 | 1 - 330 | 15 - 344 |  |
| HCWB036 | 835 | 557873 | 1 - 324 | 15 - 338 |  |
| HCWB070 | 836 | 706526 | 1 - 373 | 15 - 387 |  |
| HCWBQ74 | 837 | 526537 | 1 - 356 | 15 - 370 | AW242031, AW340905, AL039309, AL446336, AA018923, R33091, AA224525, H40324, AA012829, AL042310, AW029251, N30205, AA689351, H56703, AW440368, N41775, AA825185, AL679221, AA827096, AA69826, AL07565, AL271762, AC004814, AL049653, U91326, AC004777, AF047825, AC005231, AC006236, L78810, AC004000, AC007435, AL049569, AC005332, Z85987, AC002996, Z84480, AL133245, AL022333, AC005519, AC000501, Z98742, Z97630, AL022163, AC002312, AC005527, Z98941, AC004216, AC002470, AL022313, AC009516, AL080243, AC005031, AC004686, Z85986, AL020993, AP000116, AL031284, AC006057, AC004832, AL031666, AC005180, AP000512, Z97196, AC003101, AL136295, AC005520, AL033392, AC006480, Z98304, AC005015, AC005745, AC006344, AL022721, AC004890, AC002365, AL023375, AL109839, AC009946, AC004019, AL031680, AC003950, D86995, AF207530, AF045555, AC005844, AC006285, AC006530, AC005529, AC006468, AC020663, AC003108, AC005921, AL117344, AC005037, AC007225, AF053356, Z98743, AC005207, AL121652, AL003147, AP000558, AC007216, AC005086, AD000092, AC004884, AP000117, AC004854, U96629, AC004841, AL021392, AP000050, AC006211, Z86090, U29953, AC005944, AC007666, Z84487, AC007308, AC005300, AC005102, Z93241, AP000555, AC007421, AC008372, AC004752, AC007277, AF196969, AC005412, AC005399, AC005081, AL022316, AC008044, U62292, AL109657, AC004882, AC006111, AC002477, AF111168, AC005512, AC002301, L47234, AL132712, AC005071, AF196971, AL035086, AC004491, AC005702, AC002544, AL096701, AC006538, AC007993, AC006905, AC004659, AC005695, AC006965, AC004492, AC005619, Z97183, AF205588, AC000134, AC007283, AL049843, U52112, AC004447, U91321, AC007546, AL109963, AL139054, AL117330, AF003626, AL021154, AL035659, AC005747, AC005225, AC005924, AL022165, AL049759, AC004859, AC005409, AL122020, AC004985, AC003982, AP000556, Z95114, AL035587, AC002375, AC005274, AC005089, AC005725, AL049694, AC007687, AC004099, AC005058, AP000690, Z83844, Z99755, AP000689, AF015416, U91322, Z99128, AC003041, AC002316, AC004878, AL021391, AC006257, AC003098, AL049780, AC005082, AL022311, AC006487, AL096791, AL009181, AC007226, AF165926, AC005914, AC003009, AL050308, AC002072, AP000952, AL024474, AC005778, AL246003, AC002314, AC004638, AL034417, AC000774, AL031007, AL121638, AC005046, AL133371, AC0050971, AC003042, AL050318, AC004887, AL021878, AP000300, U34879, AC004552, Z98752, AC007055, |

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| HCWB088 | 838 | 527694 | 1 - 310 | 15 - 324 | AC004167, and AF196779.   |
| HCWB086 | 839 | 527692 | 1 - 424 | 15 - 438 | AA234213, AL078621, and Y13478.   |
| HCWB089 | 840 | 967726 | 1 - 401 | 15 - 415 |   |
| HCWB086 | 841 | 574850 | 1 - 120 | 15 - 134 | AA912663.   |
| HCWB087 | 842 | 842037 | 1 - 370 | 15 - 384 | AL281474, AL187148, AL050076, D44899, AA446645, AL609972, AA653139, AA584765, AL024067, AA342238, AA526643, AA598738, AA805029, F24745, AA450149, AA568314, AA193205, AL090334, H28545, AL158542, AA302661, AA648605, AA570041, AA482938, T71936, AW083706, AA225630, AA808998, AA383937, AL694417, AW149389, AA847099, AL119010, AA112924, AA020788, F30650, AL283938, AA443727, AA425924, AL154333, AL134278, AW167330, AW051288, AL166555, H25302, H67064, AL620415, AL858889, AA525407, AL636734, N73060, AA664126, AL955873, X69907, AC004893, AF000501, AP000103, AC004106, AL031281, AL035405, AC005089, AL049694, Z99128, Z97056, AP000269, AP000555, AC007435, AC004217, AC008126, AC003041, AC006965, AL035638, AF049895, AF111168, Z82244, AL049830, AF002223, AL031905, S42653, AL035458, AC004985, AL031432, AC007993, AC004526, AL033527, AL022336, AC004843, AL035079, AC004805, AC005755, AL034549, AL139165, AC002565, AF047825, AC005261, AF196969, AP007685, Z95152, AC006966, AL031685, AL079295, Z83309, AL009172, AL031389, AC005913, AC005535, AL031673, AL049872, AL033518, AC005874, AF134471, AC005479, L78810, AC005828, AL078638, AC005924, AC005372, AB023048, AC004859, AC006026, AF207550, AC005901, AE000638, AC004491, AC002477, AC005632, AC007108, Z93017, AL049591, AP000300, AC006121, AL008718, AF134726, AC005933, AL096701, Z81369, AL096766, AP000032, AP000113, AP000045, AC003956, AC007225, Z99716, Z82190, AC005921, L05367, AC007358, AC002073, AL031777, AC006601, AL035659, AC007298, AC008064, AC004148, AL031657, AC002470, AC006023, AC005916, AC004973, AC007216, AL133246, AC005231, AL049569, AL050348, AC005881, AC002994, AC004584, AL031120, AC006487, AC005531, AC007386, AC002314, AC006649, AC005520, AP000040, AC003982, AL022328, Z94056, AC002425, AC005233, AC002045, AL031291, U95743, AL031289, D87675, AC004522, AC005082, AC004531, AC004841, AC004821, AC004884, AL031289, D87675, AL008730, AP000355, AC007192, AC005328, AL035530, U85195, AC006344, AC006146, AC006239, AC005914, AL034371, AC020663, AL109801, AC007276, AC006088, AC005740, AC006050, AL080243, AC003071, AL022316, AC005971, AC000353, AC000670, Z94801, AC007327, AC004024, AC007237, AL035071, U91336, AC004983, AC005821, AC010205, AC005696, AC005014, AL133243, AC004223, AL022323, Z83838, AC000159, AL022322, AL010770, AC006960, AL049776, AL049636, AC005730, AL109984, AL050307, AC006241, AC002350, AC006505, AC004762, AL121934, AC005220, AC002347, AL009181, AL049589, U91318, Z84469, AC006581, AC005015, AC006509, AC006299, AL024507, L34294, U95741, |

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|---------|-----|--------|---------|----------|--|
|         |     |        |         |          | Z78021, AC004889, AC007450, AF001548, U80017, AC006538, AC007992, AC012099, AC005295, AF196970, AC004167, AL096791, AC000118, AC005609, AC008039, AC007488, AB023050, AF103804, AP000014, AL049869, Z98885, AL031005, AC005037, AL135744, AC005225, L44140, AL132987, AC002381, Z83819, AC004017, and AP000143.  |
| HCWBS96 | 843 | 954028 | 1 - 404 | 15 - 478 |  |
| HCWBT10 | 844 | 523249 | 1 - 340 | 15 - 354 |  |
| HCWBT31 | 845 | 720016 | 1 - 283 | 15 - 297 | AA897291.  |
| HCWBT48 | 846 | 527676 | 1 - 139 | 15 - 153 |  |
| HCWBT86 | 847 | 927506 | 1 - 316 | 15 - 330 |  |
| HCWBU09 | 848 | 527562 | 1 - 279 | 15 - 293 |  |
| HCWBU24 | 849 | 861864 | 1 - 371 | 15 - 385 |  |
| HCWBU49 | 850 | 850014 | 1 - 402 | 15 - 416 | AL118817, AA425283, AL360368, N27737, AL224583, N62478, AF567976, AL464624, AA493464, AF753131, AA506544, AW085751, AW270287, AA659303, AA330435, AL119123, AL155572, AA595661, AL048969, AL690379, AA515165, AW169183, AL310670, AL754064, AW409621, AL349130, AA372958, AL038990, AA524604, AW086015, AA489390, AL042731, AA382435, AA662982, AL751698, AL134338, AA631915, AL744890, AL540319, AL044438, AA862218, AL039436, AA630476, AL935827, AA640305, AL042336, R43468, AL044458, AA68942, AA280886, AL014872, H05742, AL439525, AA181705, AW084152, AL174703, AA720594, N73337, AA369494, AA167178, AF114095, AW275788, AA303588, AD000092, AC002433, AC005081, AC004477, AL031228, AL021391, AL096791, AC005048, AC005516, AC005004, AF129756, Z97056, AP000359, AL035422, AF217403, AC005664, AC006479, Z82208, AL035420, AC005546, AC009336, AC006547, AL133448, Z82244, AC004686, U78027, AL022313, AC007057, AL049872, AC006581, AL021393, AP000505, AC007021, L78810, AC007242, AC002551, AL035413, AL035682, AL139054, AL121769, AC004099, AF195658, AC005301, AC003969, AC007055, AC007686, AL049709, AL035603, AC007093, AC000007, AL031122, AC003828, Z98048, AC002476, AC005726, AC007397, AC004000, AL136295, AC005519, AC002985, AC000075, AL049539, AC004772, AB014079, AL031587, AP000514, AC007535, U91318, L44140, AP000133, AP000211, U91325, AL078639, AC005670, AP000961, AC006530, AC002126, AC004159, AC004921, Z79488, AC003109, AC007436, AC005907, U47924, AP000140, AL078581, AC003042, AC005391, AC031281, AC005821, AC012330, Z93017, AC004805, AC004802, AP000280, Z15025, AC005808, U71148, U91327, AC004998, AL008718, AC004973, AL122020, U91326, Z84466, AF111168, AL022476, AL049780, AP000088, AF015416, AC006511, AL078471, AP000107, AP000039, AL133312, AL034395, Z84497, AC007546, AF030876, AC009946, AC005082, AL021308, Z93244, AC005261, AC007993, AL132799, AC010077, AL031774, AL031282, AC005751, AC005694, AF196779, L78833, AL024507, U73647, AC004929, AL096763, AC005215, AL050323, AL035494, AP000124, AP000056, AP000171, AC004522, AC005089, Y14768, AC003102, AC007785, |

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|----------------------|-----|--------|---------|----------|---|
| HCWBUT72<br>HCWBVT09 | 851 | 668350 | 1 - 540 | 15 - 554 | AL133382, AL031259, AL008710, AC003077, AL121657, AC005011, AL133574, AL035419, AL031680, AC005057, AC005911, AC005412, AF141308, AC005839, AC005793, AL117694, AC006468, AL021937, AC004903, AP000114, AP000046, AL022326, AC006139, AL1008726, U80459, AL035460, AL133245, AL049776, AL034548, Z83847, U85195, AC005323, AL034379, AL023281, AC004213, Z86061, AL022723, AC004671, AF001550, AC005736, AC006255, AP000210, AP000132, AC002039, AC005335, AC007227, D88271, AC005369, AE000658, AL034417, AL031845, AF000228, D87022, and AL132987.  |
|                      | 852 | 746335 | 1 - 366 | 15 - 380 | AL042853, AA503947, AA349854, F33121, AA366035, AA369477, AA318652, AA513999, AA508509, AA846981, AA341228, F19258, AA657458, F29989, W07032, AA559290, AA483034, AA724230, AE284583, AL158229, AA558697, N66067, AA310158, AA878495, AA363501, AA662974, AA515435, AL165988, AW406755, AI921188, AA371368, AA371503, AA723017, T66105, AW193546, AW339687, F36373, AA658235, AA557879, AL635272, F26152, AA780929, F36273, AA737154, AL120502, T07346, AA683037, AW270270, H58672, AA828680, T40077, AA828826, AA747620, AW008317, AL866908, R40625, AI457397, AI432713, AA580889, AL137954, AL357288, N41759, AL036854, AA092739, F24284, AA345333, H77900, AA932099, AA618002, C05986, AL079843, AL118911, C17838, AL745325, AL623898, AL246119, AA626747, AL431688, AA065087, R44592, AA301813, AL1565245, AA662017, AW089789, AA313016, AL037554, AI439360, AA372106, AA654322, AA148489, AL284640, AL688928, AA159978, R13151, AA639270, T25706, AW193295, AW138086, AL041382, AJ955323, T29180, AL624698, AA339187, AL792864, AL18620, Z97053, AP001053, AC007285, AL022717, AL021918, AL121934, AC005632, AL121658, AL031736, AC007536, AL109799, AL0409757, AC005215, AL023318, AP000034, AP000101, AL008629, AL034548, AC005803, AL133312, AC004740, AP000301, AP000045, AP000113, AL035413, AC004010, AL078602, AF0139906, AL117328, AF055066, Z87182, AL121603, Z75890, L78833, AP000141, AP000089, AC004884, AC004066, AP000264, AL035684, AC008115, AL023281, AC005180, AC007283, AC007312, AL021939, AP002049, AC004600, AC000353, AL020993, AC004890, AC004712, AC007733, X77531, D87675, AP000512, AC006049, AC005015, AL109984, AP000692, S78429, L44140, AP000031, AC005856, AC002377, U47924, AC004496, AC006499, AC005722, AC004470, AL031664, AL022394, AC008109, AL023803, AC004259, AC007461, AP000230, D83737, AP000144, AL008636, Y10196, AC006965, AC008984, U82668, AL049776, AL109939, AP000555, U96409, AL031650, AF190465, M87918, AL109907, AC004941, AC005911, AP000431, AL035448, AC004797, AC002485, AC006312, AC005399, AF108083, U95740, Z98950, AP000352, AP000252, AP000350, AC002316, AL035414, AC007848, AL109628, AC007666, AC004019, AC005625, AC005324, AC005944, AC005081, AC005879, AC0020663, AC005696, AL121915, AL035415, Z99756, AC000052, AC002996, AC0066071, U75931, AC004466, AL049874, AC005225, AL035461, AC005251, AL049872, AC005332, AL110292. |

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|---------|-----|--------|---------|----------|---|
| HCWBV51 | 853 | 725889 | 1 - 315 | 15 - 329 | <p> Z98742, AC006552, AC016026, AC006285, AC004087, AC000067, AC005355, AC005799, AC005486, AB023051, AL133448, Z84718, AF067844, AC005184, AC004542, AC004477, AC012085, AC005998, AC016025, Z82185, AC006088, AC005208, AF044083, AL049829, AC005204, AC007226, DI16583, U66059, AC004913, AP000134, AP000212, AC004020, AL031591, AP000194, AL035464, AC007537, AL079305, AL008582, AL080243, AL033376, AC000085, AC002558, AP000048, AC005703, AC005071, AC005370, AC000120, AL031733, U18400, M37551, L47234, AL035455, AL021786, AP000088, AC006077, AL122992, AL031283, AC004834, AC005212, AC004933, AC004703, AC002349, Z82244, AP000351, Z86062, AP000556, AP000557, AC007563, AC004902, AC005231, AL049712, AP000553, AC006149, and AF11168. </p> <p> F00252, AL134669, AW328050, AL500151, M77984, AL590442, AA533653, AA094109, AA298531, AB32674, AA601376, AB21892, AA380324, AL355414, AA6040519, H53109, AW029299, AA655026, AA693484, AL053673, AA601908, H86105, AA621838, N23229, C14262, AL133668, AL1818067, AC006023, AC006312, AC005049, AL080243, AC012384, AL078638, AL049829, AL023575, AC005081, AC004854, AC005363, AL049539, AL034420, AC005740, AC006285, AL049759, AL133246, AC007546, AL135744, AC004841, Z83846, AC005914, Z93023, AL031670, AC010206, AC007686, AC005180, AL133163, AL024498, U07563, AL049553, AC005736, AC002565, AP000114, AP000046, U80017, AC005697, AC003982, AC005759, AC005822, AF165926, AF196779, AL049636, AC003663, Z82176, AC002395, AC006453, U95090, AC002394, AC006071, AC005730, AC005004, Z84469, AL031591, AC005703, AC003104, AF109907, AC004659, AC004125, AC005082, AC005328, L78833, AL031848, AC006241, AC007842, U91326, AC010205, AP000697, AC005231, L022165, AC003101, AL034379, AF129756, AC004383, Z95113, AC002310, Z93241, AC002306, AC005015, AL008718, AC005005, AP000248, AC004655, AC005512, AC004966, AC005846, AC005971, AC007277, AC004148, AC005821, AF053356, AC002350, AC016027, AC004019, AC004999, AC005829, AC005399, Z95331, AL021391, AL031427, AP000032, AL096791, AC004821, Z82184, AC004656, AL021917, U47934, AB003151, AC004686, AC007312, AC005722, AC002091, AC005746, AC002558, AF111169, AC007055, AC009247, AC005491, D8765, AC002544, Z75887, AC008044, AL050321, AC004032, AF047825, AC005409, AL021578, AC007690, U95742, AC004477, AC004167, AC004859, AL049776, AC005632, Z98200, AC002425, AL109758, AC004765, AC004526, AC004967, AL022312, AC005531, AC002347, AC005696, AC007057, AC000082, AL031287, AC005592, AC004858, AP000010, AC006275, AC004883, AC006480, AC007052, AL080245, AC007731, AL139154, AC016830, AC005332, AC005288, AC004253, AC004797, AC007666, AL008582, Z85986, Z93020, AL246003, AP000553, AL080242, AC005500, AC005529, Z84476, AC004914, AC007225, AL031311, AP000555, AC005189, AC002316, AL022336, AC006130, AC005057, AP000089, AC002476, AC004813, AC005482, AC006538, AL022353, Z84480, AC005922, </p> |
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|         |     |        |         |          | 298304, AF024533, AL049779, AC006111, AC016831, AC005606, AC005207, AC004983, AC005701, AC007216, AL034548, AP000689, AP000355, AC004884, AL035249, AC007537, AL109798, AL035086, AP000143, AC005578, AL049692, AL033397, AC006026, AL049795, AL023322, AL096775, AC002550, AC005071, Z85987, and AL117354.  |
| HCWBV96 | 854 | 796584 | 1 - 396 | 15 - 410 | AA554392, and AA372426.  |
| HCWBX63 | 855 | 527081 | 1 - 117 | 15 - 131 | AW104748, AA2280632, AA655004, R67365, W85752, AA557970, R95704, H05073, AA552726, T78484, AA806734, AA515051, AA461317, AA509743, R84309, AA60497, AA633266, AA774184, AA158328, R84303, R83929, H02135, W80462, AA160481, N40815, R69255, AA084337, AA130658, AA196796, R52163, AA720548, H80357, H73704, H86860, H02877, T94075, H64778, AA620464, H48636, W56203, R50087, AA483223, N71724, N57890, W16581, R92288, AA158301, AA171416, AA578251, AA858197, R66878, R84296, AA161083, R47822, R93576, W95939, AL191227, N87661, AA628602, AA721981, N20219, AA522942, AA810370, AA679009, AA602528, H80373, H80186, N53573, AA938225, AA190895, N70442, AA584751, AA159974, T49241, T71030, AA469021, AA601499, AA578017, AA020729, AA047296, AA669634, AA558616, AA112299, R32415, R41717, H79297, AA342914, AA644538, AA650271, R97634, AA527958, AA583394, AA634145, TS3128, R91159, AA639248, R67504, T97558, AA521355, AA864983, AA126777, AA574110, H68999, H79151, AA773176, AA167643, AA664015, AA204718, AA721599, AA335972, R89511, AA224129, H11124, H49061, AA169194, W74484, T16056, AA459379, AA173071, AA824654, H08496, N25296, AA382911, AA873560, AA524838, AL133723, T92445, AA137017, F10924, AA663486, AA693484, AW402067, AA205915, H64805, AA226153, AA199616, AL035604, AC005900, AC000355, Z84718, AL035416, AP000351, AC004067, AC004804, AL033521, AC006996, AL022165, Z97876, AC010072, AC003029, Z98304, AL066770, AP001170, AC006039, AC003024, Z92543, AC007406, AP001068, AC004531, Z83313, AC005162, AC007050, AC005535, AL031294, AC004949, AF146191, AC005823, AC006946, AC007751, Z73361, AL034451, AL132766, Z84487, AL011930, AC007341, AC002454, AL035695, AL035415, AL109733, AP000049, Z99716, AP000352, Z98950, AL136363, AC008064, AC004626, AC004453, AP000354, AP000311, AP000355, AC005327, AC004051, Z84467, AC006026, AC003686, AC007842, AL022097, AL121823, AC002488, Z86061, AC008179, AL008710, AC002412, AL100698, AB006659, AL049554, AC007252, AL132985, AL078477, AC005541, Z84719, AL031904, AC006975, AC004996, AC004158, Z95118, AC007993, AC006369, AP000949, AC006115, AF047825, AP000515, AL035252, AL049844, AL049550, AL122023, AC005737, AL049838, AC004024, AC004451, AC004140, AC007277, AC006120, AC007065, AC005597, AL035422, AC003082, AC006031, AC004059, AC002449, AL078621, AL109854, AC006532, AL022069, AC000047, AL031446, AC0013973, AL096862, AB019437, Z82205, AL121892, Z98235, AC004994, AC009225, AL118497, Z82205, AC009288, Z84470, AC004842, AL121892, Z98235, AC004994, AC009225, AL118497, Z82205, AC009288, Z84470, AC004842. |
| HCWBX65 | 856 | 970694 | 1 - 164 | 15 - 178 |  |



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|---------|-----|--------|---------|----------|--|
| HCWBX67 | 857 | 506730 | 1 - 508 | 15 - 522 | AC003692, AC006397, AF000552, AC006152, AC010849, AL117351, AC004057, AC006984, AC004385, AP000023, AP000506, AC005342, Y01196, AC005871, Z81365, AL008709, AL080239, AC007363, AL031654, AC002403, AC007533, AC007533, AC007159, AL109656, AL050308, AF064866, AC004208, AC004081, AC005393, AL049565, AC006062, AL033397, AP000014, Z98051, AC002430, AC007617, AC006213, AF064862, AL021997, AC006227, AF064865, AC002524, AC005962, AC006071, AC009514, AC007384, AC002429, AF050666, AC004988, AB000882, AC004761, AC005768, AC004467, AC004459, U91323, AF104343, AC005516, AC018633, AC006487, AL109758, Z98941, AC006288, AC004830, Z98172, AC000100, AC006195, AC010349, AC002499, AL031012, AL022322, AC002056, AC005863, AL024497, AC004629, AC002381, AC004745, AC006270, Z94055, AL109753, and AC004889.  |
| HCWBX67 | 858 | 767491 | 1 - 121 | 15 - 135 |  |
| HCWBZ78 | 859 | 706521 | 1 - 473 | 15 - 487 | AL050322.  |
| HCWCA51 | 860 | 849923 | 1 - 499 | 15 - 513 | AC002395.  |
| HCWCB37 | 861 | 527683 | 1 - 399 | 15 - 413 | AF150189, AF150193, and AF150184.  |
| HCWCB80 | 862 | 529234 | 1 - 210 | 15 - 224 |  |
| HCWCB89 | 863 | 542340 | 1 - 175 | 15 - 189 |  |
| HCWCC62 | 864 | 967306 | 1 - 386 | 15 - 400 |  |
| HCWCC77 | 865 | 527077 | 1 - 278 | 15 - 292 |  |
| HCWCC82 | 866 | 705347 | 1 - 393 | 15 - 407 |  |
| HCWCE02 | 867 | 849968 | 1 - 312 | 15 - 326 | AL266137, AA446645, AA364006, AA689351, AW419126, AA365520, AA642464, AA221999, AA502207, AA526099, AW192199, H62778, AA805848, AA493464, AA525807, AL885896, AA603323, T67090, AA487209, AL272052, AA971196, W45205, AA228368, AA593471, H81270, AA527633, AA584655, AA485482, AA468505, F13749, AA468371, AA715173, AA715075, AA581895, H15241, AA302763, AA084609, AW028376, F25301, AA824484, AA552809, AL245693, AW089952, AL272211, AA630947, AW188742, AA296614, T65951, H91047, AA583728, S42653, AC004408, AC007136, M87914, AC005859, AC009247, AL135744, AL133353, AL022336, AC004686, AL121915, AP000088, AC004106, AC005049, AC005209, Z86090, AF207550, AC005229, AC002045, AC004975, AC004106, AF196972, AC002044, AC007450, AL049760, AC005484, AP000066, AC006130, AC004999, AC007880, AL1522316, AC009516, Z85996, AL096776, AF111168, AC000353, U91321, AC004125, AL031659, AC004797, AL031589, AC006630, AL096791, U80017, AC006026, Z82217, AC002350, AF047825, AC005180, AC008033, AC005324, AP000096, Z94277, AF165926, AC003687, AC005006, D87675, AC004832, AP000252, AC002375, Z95152, AL049872, AP001053, AL035420, U91322, AF134726, AC007845, AC005619, Z84469, AC004673, AC003025, AC004491, AC006014, AL009173, AC002476, AC004813, AC000052, AC005412, AL035400, AC005971, AC007546, AL031681, AC006323, AL035638, Z94801, AC007226, AC004148, |

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|---------|-----|--------|---------|----------|--|
|         |     |        |         |          | AL031662, AP000240, AP000501, AC005702, AC006050, AL034494, AC003106, Z82201, AL022721, AF139813, AC005740, AC005821, AL020997, AC004685, AC004019, AP000553, AP000065, AP000212, AP000134, AP000115, Z93017, AC002378, AC005086, AL0021407, AC000387, AC004526, AC005488, AF004858, AP000104, AC002365, Z933241, AC000111, AL031432, AC005796, AL031311, AL035691, AC006144, AL133485, AC003982, AC004341, AC003110, AL035249, AL009759, AC006271, AF165138, AC003667, AC004682, AC004477, AC005921, AC005516, AC004765, AC005479, AP000009, AC002067, AC004859, AF035588, AL0096712, AC003149, AC007358, AP000008, AC005362, AL031289, U91323, AC007040, AC007114, AL024498, AC004815, Z95114, AC005057, AC006057, Z98304, AC007884, AL031728, AC006453, AL121748, AP000509, AL132987, AL031594, AC002347, AC005369, AF109907, AP000704, AC004904, AC009294, AC002546, AC002039, AP000512, AL121923, AC006160, AC004223, AC005846, AL021197, AL035683, AC006120, AL031664, AC006576, AL132777, AC005043, AC002369, AC007193, AC004955, AC002310, AL122021, AL033517, AC004254, L44140, AC012085, AC004072, AC002477, AL049631, AC005071, AL109827, Z82195, AC007687, Z84487, AC005839, AL034451, AP000032, AC007308, AC006571, AC007536, AC007685, AF088219, AC004216, AC005914, AC005291, AC004517, AF190465, AC007860, AC003077, Z85986, AC011456, AC006301, AL021154, AL009181, AC002394, AC005081, AC004796, AC002470, AL078638, AC005678, AC003930, Z82244, AL133448, AC004913, Y14768, AC005632, AL049830, AC005696, and AL034371. |
| HCWCE21 | 868 | 523224 | 1 - 540 | 15 - 554 | AA131704   |
| HCWCE35 | 869 | 706489 | 1 - 289 | 15 - 303 | AW440424, N55515, A1025905, A1285493, A1683426, AL133906, AL133902, AA834670, AH446623, T70299, AC004983, AL035608, AC003800, AC006650, AF165926, AL031282, AF109907, AP000152, AC005354, X74984, AC004922, AF052051, AL1049830, AF146367, AC003042, AF124523, AC005291, AJ003147, U82668, AC006124, AC004890, AC002306, AC005288, AP000300, AP000549, AC006946, AL031666, AC005221, AC006197, AC004874, AP000113, and AP000045.   |
| HCWCE63 | 870 | 527678 | 1 - 244 | 15 - 258 | T96277, T96279, and AP000555.  |
| HCWCE69 | 871 | 757800 | 1 - 284 | 15 - 298 | AI884861, N63755, AA3386433, A1018726, A1624038, A1246061, AA341865, H71678, R48980, AW192648, AA317414, H81732, AA679353, AW088557, AA662614, AA054639, AV0408396, H86579, AA063115, AA730488, AA371883, AA538404, A136722, A1054900, AV069769, AA486877, W94450, N30205, A1360504, AA0985199, AA077637, W42387, AA018923, A1249853, AA012829, A1284543, R87646, A1254770, A1251034, A1251203, A1251284, R33091, A1250552, A1904944, AA303131, AA809011, AA206366, AP926597, R56810, A1459866, AA302660, H52197, AA304790, H53023, A1537800, H61871, AA774006, R19199, AA192731, H90032, A1251241, AL037006, W68328, H65213, A1223626, AW019964, AW303498, AA744095, H07953, T02817, AW265688, F23307, AA295893, AP003404, AA295899, A1369076, AA734741,  |

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| <p>             AI679045, AI276360, AI061303, AA808725, AA560256, R89560, H56003, AW190302, F35674, T58480, T94592, AI860535, AA846014, AA114131, AA322542, R14824, AI251576, AI155246, AI049504, AI533660, AA524766, AI306232, AI434144, AW274191, AI15834466, F25984, AI054085, AI445338, AW169038, AA744423, AW342143, AI859428, AA364333, R94968, HI10454, AA468494, AI791659, AA429942, AW327555, AA632907, AI903448, AA628456, H47736, H53217, AA307993, AW085839, AI224619, AA862029, H53284, AI805261, AI612810, AI246192, AA115655, H54252, AA278814, AI880889, T48829, AA297961, AI479068, AI565084, HI04971, AI690449, AI929298, AA339789, AI804519, AI929825, AI865980, AA370764, AA662989, AA702724, AA700958, AA505974, R72264, AI539024, AA486819, AI114045, AA678616, AA721530, AA669185, AI004740, AA434346, T54783, N86446, AA713161, AI046818, AW157180, AA721998, AA449979, AA721523, AA363003, AC000063, AC003667, AC006006, AC005593, AI136295, AF042484, AC009225, AI132987, AC006211, AC006398, AI096816, AF093117, AP000295, AC002553, AP000112, U95626, AC004015, Z68284, AI122021, AI078476, AI031446, AC006229, AC005610, AF064861, AC005189, AI049795, AF196972, AC006965, AI035467, AC008119, AC005537, AC007625, AC006511, Z98884, AI031592, AC004069, AI096701, AC006559, AC002120, AI096792, AC004187, AI136504, AC005815, U08988, AI050311, AC006060, AI022717, AI035067, AI009181, AC004855, AC002085, AI034402, AC003106, AI022069, AI023582, AC000094, AI022578, AC005513, AC006324, Z97195, AC006840, AC006077, AC005158, AB020864, AI031584, AI109984, AC007458, AC000085, AC004969, AC005351, AC007869, AC004884, AC002496, AI035687, AI049650, AI034421, AC005053, AC008154, AC002456, AI133246, AI031346, AP000516, AC005799, AC002430, AP000355, AC007384, AC005389, AI031602, AP001337, AI031848, AI035697, AC003111, AI050318, AC005225, AC005261, AI031120, AI109985, AC006213, AC007671, AC009227, AC004805, AC005015, AC002369, AI022319, AC007032, AC006500, Z82206, AC005969, AC002554, AC004812, AI136168, AC002081, AC018633, AI117328, AC004460, AC007065, AI135744, AI096712, AP000835, AC004592, AP000964, AI011930, AC002556, AI080276, AC000086, AC005546, AI031347, AI049699, AC008072, AC006481, X71402, Z85986, AI117338, AP000565, AC009901, AC005837, AC005089, AC002072, AC004941, AC006296, AC005480, AC004129, AI031845, AI004862, AP000697, AP000261, AF196779, AC005518, AC006263, AC004949, AC008126, AI049176, AI031664, AC004789, AC004049, AC007199, AP000561, AI049780, AC007055, AI034420, AI031671, AI003147, Z82189, AC004017, AC006241, D83253, AP000502, AC002551, AC009275, AI110292, AP000100, AP000035, AI020997, AC006465, AI096843, AI132985, AI034423, Z95114, AI13163, AC003088, AC006417, AC004762, AC005872, AI034411, U85195, AF205588, AC022517, AI136297, AC000025, AC000072, AI022476, AI021937, AC004854, Z859587, AC006141, AC004000, AC005823, AF134726, AC005527, D86993, AE006658, AC007656, AC007390, AC008041, AC006075, AI034343, AC004383, AP000514, AI023807, AI008631,           </p> |  |  |  |  |
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|---------|-----|--------|---------|----------|---|
| HCWCE86 | 873 | 964648 | 1 - 389 | 15 - 403 | AC005587, AL031283, AC005528, AC004972, AC004821, AH020863, AC007392, AC000111, AC005231, AL079305, AL133004, AL078471, AP000432, AL021393, Z86690, AC007031, AL008718, AC002312, AC0008134, L35532, AC005529, AC004764, AC005006, Z84719, AC004448, and AL034551.  |
|         |     |        |         |          | AF070717, AF049895, AC002425, AL078644, AC004386, AC000353, AC004007, AC007192, AC002400, AC006064, AC002299, AC008067, and AC005756.   |
| HCWCE04 | 874 | 615626 | 1 - 39  | 15 - 53  |   |
| HCWCE06 | 875 | 954580 | 1 - 204 | 15 - 218 |   |
| HCWCE91 | 876 | 527558 | 1 - 335 | 15 - 349 |   |
| HCWCE94 | 877 | 952684 | 1 - 536 | 15 - 550 |   |
| HCWCE91 | 878 | 527090 | 1 - 609 | 15 - 623 |   |
| HCWCE02 | 879 | 575336 | 1 - 320 | 15 - 334 |   |
|         |     |        |         |          | T05617, A1523477, N38803, A1754567, A1755214, A1298079, A1863279, A1292975, AA614139, A1800535, AA209436, AA363957, A1294237, A1279417, A1080732, AL038977, A1491755, AA582746, A1624234, A1267356, AA741301, AA489860, A1630894, A1078409, A1278211, A1560073, A1249688, AW316599, F29071, A1686563, AW373645, AA831638, A1038304, AA612578, A1356264, A1569100, A192599, A1080307, AA832016, AA984543, T67090, A1583142, AA507990, AA311432, H40478, AW071109, AL134167, AL045476, AA95827, AW439703, AA702550, AC005399, AF038458, AL031121, AC012085, AC005014, AL031985, AC002994, Z83844, AR036572, U91328, AC003662, AC006449, AL121653, AC005839, AC007386, AC009501, AC004019, AF064857, AC005589, AFI39813, U80017, Z82195, AC002395, AC004963, AC005015, AC006064, AC002094, AC005520, AL031005, AL049282, AC005529, AL022238, AL034429, AL024498, AC003025, AL049829, AC004882, AL034418, AL022331, AC006343, AL133382, X60459, AC003103, AC004986, AC004223, X64467, AL022400, AC004228, AC005018, Z75887, Z97056, AC006111, AP000555, AC010077, AC002492, AL133163, AC007207, AC007385, AL109842, AC004144, AC004131, U89337, AC000092, AP000692, AC005932, AL050318, Z82244, Y10196, AC004991, AC000108, AC006032, AC004664, AC007934, AL049779, AL049636, AC004033, AP000152, AP000011, AC004382, AC006930, AC005578, AL022328, AL035700, AC007731, AC006084, AC005500, AC005182, AC002477, AF049895, AC004644, AP000501, AC003007, AL031589, AL008715, U55184, AL008710, AL049576, AL022313, AC005102, AL049780, AC005017, AC002316, AC004016, AC006125, AL022476, AL031433, AC005482, AC007191, AP001137, AC005037, AL034402, AL035684, AC006292, AC005740, AC006101, AL121754, AC000134, AF053356, AL021546, AC009399, AC006597, AL049229, AC002420, AC004820, AC007536, AC005666, AC006130, AC005086, AL049872, AP001058, AC006480, AC005516, AC006238, AC007228, D86995, AC009363, AC007057, U95743, AF047825, Z98844, AC000353, AC006523, AC004804, AL049697, AC004805, AC003104, AC004876, AL033397, AC000159, AC005632, AF126403, AC007114, AP000359, AC002073, AL031274, A1003147, AC006531, U91321, AL031672, |

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|---------|-----|--------|---------|----------|---|
|         |     |        |         |          | 282900, AL109801, AL031311, AC005527, AC004594, AC004126, AL035685, AC007021, AC004593, AC005952, AP000123, AL050321, AC005231, AL035697, Z49235, AL121603, AC006388, AC009225, AL049538, AC022517, Z97184, AP000141, AC004910, AF001550, AC003012, AC005225, AC007156, Z93017, AF196972, AC004234, AC006630, AC004079, AP000215, AC006312, Z94277, Z68273, AC005777, U95740, AC007276, AC002470, AL031228, AC006011, AC004990, AL109827, AC004674, AC005332, AP000088, AL008635, AC002418, AC005011, AL021977, AP000328, AP000055, AP000170, Z83843, AL031680, AC004765, AL049776, AL022336, AL031286, Z93023, Z84481, and Z92846.   |
| HCWC101 | 880 | 920706 | 1 - 279 | 15 - 293 |   |
| HCWC122 | 881 | 675011 | 1 - 132 | 15 - 146 |   |
| HCWC145 | 882 | 577704 | 1 - 292 | 15 - 306 |   |
| HCWC101 | 883 | 921586 | 1 - 437 | 15 - 451 |   |
| HCWC138 | 884 | 556358 | 1 - 544 | 15 - 558 |   |
| HCWC186 | 885 | 790718 | 1 - 147 | 15 - 161 |   |
| HCWC185 | 886 | 529243 | 1 - 324 | 15 - 338 |   |
| HCWC110 | 887 | 888992 | 1 - 466 | 15 - 480 |   |
| HCWC162 | 888 | 715981 | 1 - 309 | 15 - 323 |   |
| HCWC167 | 889 | 751963 | 1 - 328 | 15 - 342 |   |
| HCWC116 | 890 | 667392 | 1 - 231 | 15 - 245 |   |
| HCWC165 | 891 | 529230 | 1 - 437 | 15 - 451 |   |
| HCWC196 | 892 | 963564 | 1 - 225 | 15 - 239 |   |
| HCWC125 | 893 | 518793 | 1 - 297 | 15 - 311 |   |
|         |     |        |         |          | AA577748, FI7700, AA703972, AA548087, AL446474, H05073, D56402, A1053786, T78484, A1890385, AA837677, A1979005, AA663966, A1254485, A1859834, AA077776, AA492399, AA721615, AA857296, AA663701, AA326410, AL118911, AA503168, AA536015, A1251111, H57826, AA357307, A1859946, N39097, A1538540, AA531554, AA972238, T94328, AA564561, H10143, R32200, R26134, AL633185, M78169, AW419081, A1671035, AW079809, AA515350, AW304531, A1023899, AA487542, B94288, AA297968, T92957, AA564145, AA828762, A1610644, A1291317, A776552, A1151407, H94870, A1261913, AA148656, A1912514, AA526656, AA614010, AW337434, R91232, AA814510, AA837646, AA827978, AA360987, AA501614, AA235575, AA360996, AA572960, AL031685, U82828, AC008394, AC004854, AL078471, AC002543, AC002082, AC003029, AL035072, AC005971, AC006001, AF196969, AC002312, AC004386, A1023051, AP000512, AC004821, AC004996, AC003041, AC004231, AP000343, AC005740, AL049761, AL020997, AP000513, AC004930, AC004158, AC005519, AL121652, AL133246, A1001523, AC002351, AC020663, AP000130, AL008582, AC005914, U107000, AC002310, AL034420, Z99714, AL109653, AP000762, AP000215, AC004675, AC006257, AC004990, AC005696, AC006023, AC007055, AL033518, AC004883, Z95116, |

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| HCWCN40 | 894 | 835584 | 1 - 425 | 15 - 439 | AC016027, AF088219, AL034417, AL008635, AC007565, AC005206, AC002544, AC005037, AC005081, AC016830, Z99716, AF015720, AL031672, AP000244, AL121655, L78833, AL096701, AC005069, AC008372, AC004796, AL035587, AC005013, AC007676, AC005667, AC0040638, AL040976, AL008725, AC004087, AC005951, AB023052, AL05461, AF064861, AC005832, AC007227, AL229041, U62293, AC008012, AL023879, AC005015, AC005046, AC005529, AC006285, AL121658, AF001550, U85195, AC005736, AC004955, AF037338, AL031229, AL132857, AC007384, AL122020, AC007899, AC002980, AC005722, AC005255, AL049532, AF165926, AC004477, AC004820, AE000658, AF111169, AL022320, AC005251, AL050318, AP000210, AP000132, AC006160, AC006079, AL016025, AC007043, AC005972, AC002531, AC005057, AF111168, AL049795, Z97196, AL021939, AC005544, AL022322, AL049869, AC002301, AC009247, AL109802, AL008718, AF000555, AC004226, AC005023, AC007510, AC005412, Z68870, Z83840, AL031228, AL035415, AP000248, Z93017, AC000052, AL031005, AC004491, U63834, Z99128, AC005702, AL021578, AL135744, AC007308, AC004921, AC008033, AF053356, AC004047, AL132712, AC009516, AC007199, AL023803, AL110502, AL117328, AP000690, and AC005065.  |
| HCWCN40 | 894 | 835584 | 1 - 425 | 15 - 439 | AL032822   |
| HCWCN45 | 895 | 723418 | 1 - 505 | 15 - 519 | AC004098   |
| HCWCN61 | 896 | 924894 | 1 - 294 | 15 - 308 |  |
| HCWCN92 | 897 | 527088 | 1 - 419 | 15 - 433 | AA716191, AL031432, and Z65992   |
| HCWC002 | 898 | 920876 | 1 - 303 | 15 - 317 | AA554430, AA528234, F16356, AC007263, Z86064, AL122023, AL008719, and AC002430.  |
| HCWC021 | 899 | 522225 | 1 - 145 | 15 - 159 |  |
| HCWC035 | 900 | 706490 | 1 - 504 | 15 - 518 | F30251, AA371410, AA831919, AA385775, A1929796, AW089625, AL345334, R70883, A1283938, AW008184, AA535216, R92658, F24272, R70884, AA610255, A1885465, A1884383, A1908508, A1908525, A1278801, AC004491, AC004448, AC005291, AL031121, AC007880, AC007193, AC003041, AC008372, AL049776, AF196969, AC005091, AC016830, AC005102, AC006449, AF042484, AC006013, AC005921, AL009181, AC006948, AC005180, AC004242, AC006023, AC007488, AC004659, AC002039, AC004891, AC005399, Z75744, AC004019, AL031733, AL031228, U95742, AC007216, AL035684, AC004087, AC005971, AL110502, AL049646, AL031289, AP000555, AC007425, AL096712, AC007226, AP000689, AL031311, AC005535, AC003663, AC005225, AC008041, AC005820, AC006530, AC002400, AL031588, AC005874, AF134471, Z951115, AL117355, AP000512, AC007056, AC004475, AC004913, L78810, Z83844, AC007690, AC006160, AC006277, AF109907, AC005803, AC005015, AC004686, AC004865, AB020865, AL121653, AC005668, AC005932, AC004921, AC004843, AC012627, AL078639, AC005839, AC005954, AC006441, U66629, AL022165, AC007386, AC004033, AL035413, AC006001, AC004142, AP000302, AC004859, AC009533, AC005736, AL132994, AC006285, AC005726, AC002094, AC007055, AD000092, AC005520, AP000500, AF111168, AC005081, U95740, AL121923, AL121825, U07000, AC002544, AC002470. |

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|         |     |        |         |          | AL034551, AC006581, AC004687, Z82206, AC007406, AC007766, AC002126, AP000501, AL133244, AC006071, AL133243, AC005095, Z75888, AP000114, AP000046, AC000353, U521111, AL049869, AP000350, A1243213, AF019413, AC009946, AC007656, AC0005578, AC003367, Z96074, AL049780, A1003147, AF064861, AC016027, AL109627, AL078638, AL022316, AL133448, AC005229, AL022163, AC005325, AC000393, AF001548, Z75887, AF024533, AC004531, AC006512, A1236701, AC005531, AC005274, AF001680, Z82180, AC003080, Z93241, AC006511, AC005480, AC004000, AC004583, and AC005790.   |
| HCWC054 | 901 | 558274 | 1 - 368 | 15 - 382 | N53621, AW302766, AA843874, AC007677, AP001136, AC009308, AL034377, AP000473, AC003669, Z84469, AC006948, AC007077, AL027399, AP000099, Z97198, AP000036, AL0035686, Z68326, AC005341, AC007126, AP000262, AC002367, Z83313, AC009399, AC004806, AL022166, AC002086, A1229041, A1133269, AF020801, AF107885, AC007556, AC004597, AC005837, AC002527, and AL080239.  |
| HCWC063 | 902 | 557917 | 1 - 310 | 15 - 324 |   |
| HCWC072 | 903 | 527546 | 1 - 296 | 15 - 310 | AC005907.   |
| HCWC077 | 904 | 772515 | 1 - 99  | 15 - 113 |   |
| HCWC068 | 905 | 573148 | 1 - 203 | 15 - 217 |   |
| HCWC075 | 906 | 527688 | 1 - 312 | 15 - 326 | AA828573.   |
| HCWC048 | 907 | 531423 | 1 - 106 | 15 - 120 | AL008639.   |
| HCWC095 | 908 | 723610 | 1 - 99  | 15 - 113 |   |
| HCWC031 | 909 | 693632 | 1 - 656 | 15 - 670 |   |
| HCWC064 | 910 | 526482 | 1 - 309 | 15 - 323 | N66690, A1200947, A127410, A1932346, AW008872, C06101, and AA053116.<br>AW150387, AA533054, H71678, AA568314, AW419389, H72278, A187148, F18111, AL040374, A1431513, AA605266, AA610433, AA904211, AA018923, AA513921, AW167154, AA468505, AA468371, A1880329, AA516320, AA899179, A1917132, AA056248, H67064, AA579278, AA493628, AA492524, AW002831, H72688, A1640411, AA605201, T74524, AA228368, AA721561, AW275699, AA742775, AA282951, AA862075, A1583291, AA365520, R74433, AA577141, A1635440, AA689351, N73060, H84412, H79453, AA515138, A10569401, A1366993, A1915293, AA526193, AA502098, AC004525, AC002303, AC007227, AL024507, AL021368, AC005088, AF196999, AF030453, AL034371, AL031905, U62317, U95743, AC004985, AC002565, M87889, U95741, AF051356, AC005971, AC004883, AL031657, AL022336, AC006079, U07000, AL049539, AL049780, AC008072, AC005841, AP000032, AP000120, AP000702, AF111168, AC002375, U02047, U91323, AC004815, AC004862, AC005838, AC004887, AC006241, AL031282, AC002352, AC006486, AC000004, AL096701, AC009516, AC004983, AL049569, AC006088, AL031056, L78810, Z84487, AC005244, AP000320, AC009464, AL049758, AL020997, AL049692, AC004448, AP000884, AC006285, AC003663, AC005899, AC004466, AC003085, AC002223, AL031985, AL121769, AP000141, AL021918, Z98941, AC006965, AC005632, AL109801, AF000167, D87009, AC006449, Z95113, AP000553, AC004685, AC006117, Z95152, AL033527, AF047825, AF134726, AC002551, |

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|---------|-----|--------|---------|----------|---|
|         |     |        |         |          | AL049872, AC002126, AC006480, AC004084, AL031291, AL121748, AC004933, AC004128, AL031295, D87675, AC009294, AC005332, AC008101, AC005104, AL139054, AC010206, AL008715, AC006239, AC006530, AL022327, AL035551, AC005389, AL096791, AL049712, AC005081, AP000555, U91326, AC007182, AL034429, Z98257, AL132641, AC007899, AL022316, AC004583, AC003103, AL133353, AC002554, AC004699, AL050321, AC005859, AC004645, AC003043, AC002468, AP000248, AC007536, AP006689, AL021808, AC002316, Z68273, AC005914, AP000494, AC005755, AL133448, AL022326, Z87188, AC005102, AC002544, AC005086, AL031587, AC005669, AC005037, AC007395, AC005015, AC004797, Z98949, AL049589, AC005778, AC006026, AC019014, AC004878, AC004905, AC003108, AL035086, AC005821, AC006547, AL031311, AL135744, AC005722, AL031575, AL049830, AP000514, AC005616, AL008726, AP000501, AP000343, AC008928, AP000512, AF196971, AL008730, AC006365, AC006312, AP000116, AL009178, AC002312, AC006111, AL049874, AC004125, AL132992, AC007664, AC005921, AL135879, AL121790, AC004526, AF205588, AC002302, Z98752, AC005412, AC004584, Z49866, AL022163, AL035587, AP000569, AF107258, Z99755, Z95327, AC005863, AC006344, AC005369, AL008583, AL133485, AC007371, Z73358, AC000118, AC006538, AP000100, AC006128, AC004902, AL009172, AF165926, AC006406, AC007263, AP000688, AL049760, AC006139, AL031428, AL050341, U91321, AC003042, AB016897, AC004675, AL022320, AC007314, AC004148, AC002985, AB023048, Z84480, AF196779, AL135960, AL131016, and AC007376. |
|         |     |        |         | 15 - 299 |   |
| HCWCS12 | 911 | 585302 | 1 - 285 | 15 - 299 |   |
| HCWCS51 | 912 | 921636 | 1 - 217 | 15 - 231 |   |
| HCWCT07 | 913 | 954070 | 1 - 258 | 15 - 272 | AC002306.   |
| HCWCT23 | 914 | 676336 | 1 - 250 | 15 - 264 |   |
| HCWCT48 | 915 | 741925 | 1 - 447 | 15 - 461 | AC005599.   |
| HCWCT85 | 916 | 527543 | 1 - 321 | 15 - 335 |   |
| HCWCU01 | 917 | 921618 | 1 - 310 | 15 - 324 |   |
| HCWCU17 | 918 | 577688 | 1 - 329 | 15 - 343 |   |
| HCWCU32 | 919 | 725584 | 1 - 427 | 15 - 441 |   |
| HCWCU57 | 920 | 764602 | 1 - 451 | 15 - 465 | AA729117, A1791301, A1791458, A1732502, AA171892, and AA526416.   |
| HCWCU58 | 921 | 527695 | 1 - 405 | 15 - 319 | A1014353, AA592982, and R17976.   |
| HCWCU63 | 922 | 527541 | 1 - 163 | 15 - 177 | AW418610, and AL109667.   |
| HCWCU94 | 923 | 713416 | 1 - 292 | 15 - 306 |   |
| HCWCV01 | 924 | 921569 | 1 - 293 | 15 - 307 | AL433503, AA715955, AW150900, W04964, AL031662, AL109623, AP000009, Z98742, and AF196969.   |
| HCWCV09 | 925 | 861950 | 1 - 420 | 15 - 434 |   |
| HCWCV16 | 926 | 861839 | 1 - 552 | 15 - 566 |   |



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|---------|-----|--------|---------|----------|--|
| HCWCV58 | 927 | 966512 | 1 - 314 | 15 - 328 | W21218, A1445373, A1049701, N42508, A1870444, AA151904, AF564301, AA147801, AL134898, AL120698, A1056259, W63553, AA515172, N73169, A1246061, AA278496, AW019964, N77384, A1537020, AW238016, A1557090, A1223626, A1973173, F08886, AW021116, R48980, A1806535, A1054090, A1251024, AA728861, AA3565911, AA715351, A1284543, A1254770, AA448050, A1927621, A1251944, A1251034, A1251284, A1251284, AA559166, A1250552, A1096791, A1010205, AP000201, AP000097, 299716, AP000240, Z98304, AC003087, AP000556, AL031685, AC0062111, 298742, AC005034, AC004223, AC002476, Z83844, AC007380, AP000557, AL034555, AC005839, AL132716, AL034449, AP000553, AC003007, AC004991, AC012083, AC002381, AC002425, AL022324, Z98946, AC005015, Y10196, AP000355, AC005821, Z93023, AC002470, AC002091, AL139054, AF130342, U80017, AL0035420, AC004485, AL121653, AC009509, AC005740, AC005722, AP000248, AB023049, AR036572, U91328, AC004126, AL033397, AC007707, AL049694, AC006130, AL035659, AL109865, AF196969, AC005829, AL109657, AC002368, Z84466, AC009247, AC007055, AC005011, AF001549, AC004827, Z98048, AP000352, AL031680, AC005235, AL049794, AC005081, AC003029, AC003101, AC004079, L44140, AC005261, AL121652, AC004659, AC006992, AL034419, AF111168, AC005003, AC005486, AP001053, AC012384, AC006285, AC005089, AC005534, AC005071, AC004797, AL022165, AP000343, AC006312, AC005519, U89337, AL078613, AC003663, AP000501, AL021878, AF200465, Y07848, AC002457, AC003982, AC005696, U95739, AL022334, AC006511, AC006333, Z98051, U96629, AP000039, AP000107, AL079340, AL031281, AC009399, AC007057, AL031228, AC002563, AL035587, AC005919, AC005274, AC005911, AL035071, U91323, AC005072, AL031286, AL121603, AL034582, Z84489, AC008498, AC004491, AP000345, AC007193, AC004448, AC005952, AP000555, AC007225, AL133163, AC005330, AL050404, AP000689, AC005632, AL096701, AC005225, Z83826, AL109801, AL035682, AP000344, AL008718, AL022326, AC004139, AL008627, AL031985, AC005799, U78027, AC004834, Z98941, AC004821, AC005014, Z98884, AF196779, AP000100, AC005095, AC006512, AC007934, AL117337, AC007200, AL035422, AC005243, AL031283, U82828, AC005332, AC005971, AL035089, U52112, AL022336, AC005702, AC004891, L48038, AL132826, AP000113, AP000045, AC007011, Z93017, AC004816, AL022319, AC004647, AC006529, AC004859, AC005684, AC007551, AF205588, AL049692, AC004475, Z98044, AL034553, AC007371, and AC003689. |
| HCWCV75 | 928 | 527080 | 1 - 226 | 15 - 240 |  |
| HCWCV85 | 929 | 966987 | 1 - 318 | 15 - 332 | AC004801.  |
| HCWCV93 | 930 | 792550 | 1 - 76  | 15 - 90  |  |
| HCWCX18 | 931 | 574933 | 1 - 364 | 15 - 378 |  |
| HCWCY16 | 932 | 507191 | 1 - 215 | 15 - 229 |  |
| HCWCZ33 | 933 | 523265 | 1 - 223 | 15 - 237 |  |
| HCWDB74 | 934 | 521894 | 1 - 265 | 15 - 279 | AA745628, N69399, R32102, T51436, A1246386, H80215, A1139971, N27874, AA565911,  |

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| AA523719, AW390278, AL566236, AA515160, AA299351, AA425924, AA984585, AL583745, AA649174, AW377921, AL570019, AL281622, AL679759, R70884, AA833828, AW377907, AW377863, AW377912, AA078384, AA468494, H60331, AW176639, H63953, AA48956, AW390555, AW377894, AL038977, AW377926, AW377843, AW377862, AA484191, AW390250, AA702637, AA584788, AL133083, AL246061, AA516018, AA678616, AW151870, AA548221, AL524240, AA468975, R70883, AW384076, AW237903, AA514450, AA218835, AL734155, AL282821, AL983447, AA722231, F33820, AL749306, AL538491, AW270255, AW337483, AA3309457, AA334693, T31290, AA357878, T53133, AW179040, AW372813, T40210, AL169925, AA579281, AL240776, AL034421, AL022069, AC005291, AL011930, AL008629, AA366676, AL628482, AW379218, AL042670, AA564925, AL050321, AL023807, AL033524, AC005081, AC005015, AF121781, AL035106, AL080243, AL049611, AC005225, AL031286, AF001549, U61981, AC005746, Z69705, AC005940, AC002112, AP000131, AP000209, AC004754, AL049776, AL034421, AL022069, AC005291, AL011930, AL008629, AL022400, AL031428, Z82179, AL022336, AP000264, AP000101, AP000035, AL035690, U50871, AL035445, AC005368, AC005527, D87675, AC005480, AC005844, AC007227, AL022721, AC007283, AC003963, AC004890, AC000003, AC002073, AC005590, AL049712, AC007656, AC006305, AP000094, AC003954, U66061, AC005516, AC007298, AC005235, AF067574, AC005529, AC005383, AC006576, AC010170, AC005972, AC005821, AC002390, Z84474, AL031848, AP000501, AF184110, AP000502, AF134726, AC006059, AL109865, AF109907, AC006271, AC005899, Z98749, AC002456, AC005037, AC004137, AC004966, AP000140, AP000089, AL022326, AL035455, AL049588, AC007226, AC005874, AF134471, AC002542, AL139054, AC005377, AL033392, AL022725, AC005011, AL121769, AP000543, AP000239, AL031588, AC009275, AC004230, AL034548, AC009308, AL031257, U96629, AC002472, D28126, AP000282, AC007536, AC004913, AL049563, AC005086, AL022396, AF047825, AF053356, AL096774, AC004216, AC006008, AC006241, AC005091, AP000313, AC004209, AL022311, AL021937, AP000513, AL034350, AC003070, AC004020, AC005694, AP000194, AL035413, AB020863, AC006417, AP000088, AL049834, AC005164, AL078639, Z95118, U95742, AC012085, AP000108, AP000040, AC006088, AC004583, AC004500, AC004812, AP000050, AP0000248, AL096791, U91326, AC007263, AF030876, AL121825, Z84466, AC002395, AL049781, AC000041, AF045555, AL020997, AC005914, AL031668, AC007666, AC000035, AC004143, AL022237, AC003030, AC004558, AC004217, AC002551, Z98048, AC000025, AL034551, AL022324, AC019014, AP000350, AC005261, AC005010, U85195, AF111168, AE000638, AC006011, AP000117, Z98745, AC007934, AC006254, Z92542, AC005230, AL035071, Z99943, AL035460, AL133245, AL121653, AC007425, Z82194, AC006430, AC007347, AL022238, AC006001, AC007057, AL049872, AC006277, AL034423, Z95400, AC008273, Z95152, AC004805, AF172277, AC005678, AC005184, AC005722, AC002289, AC002349, AP000503, AC005846, AC002403, AC005288, AC002307, AC010202, |  |  |  |  |
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| HCWDB04 | 935 | 531417 | 1 - 299 | 15 - 313 | and AC008041.  |
| HCWDD15 | 936 | 660571 | 1 - 264 | 15 - 278 | Al607096.  |
| HCWDD60 | 937 | 575555 | 1 - 147 | 15 - 161 |  |
| HCWDG46 | 938 | 715509 | 1 - 147 | 15 - 161 |  |
| HCWDG49 | 939 | 861951 | 1 - 449 | 15 - 463 |  |
| HCWDH65 | 940 | 574250 | 1 - 533 | 15 - 547 |  |
| HCWDH85 | 941 | 574262 | 1 - 168 | 15 - 182 |  |
| HCWDH92 | 942 | 790618 | 1 - 212 | 15 - 226 |  |
| HCWDI37 | 943 | 849867 | 1 - 414 | 15 - 428 |  |
| HCWDI43 | 944 | 527685 | 1 - 309 | 15 - 323 |  |
| HCWDI64 | 945 | 924632 | 1 - 238 | 15 - 252 |  |
| HCWDI72 | 946 | 573034 | 1 - 163 | 15 - 177 |  |
| HCWDI79 | 947 | 526765 | 1 - 394 | 15 - 408 |  |
| HCWDI82 | 948 | 671636 | 1 - 221 | 15 - 235 |  |
| HCWDI89 | 949 | 953750 | 1 - 756 | 15 - 770 |  |
| HCWDI92 | 950 | 733472 | 1 - 341 | 15 - 355 |  |
| HCWDI21 | 951 | 524780 | 1 - 347 | 15 - 361 |  |
| HCWDI23 | 952 | 527555 | 1 - 346 | 15 - 360 |  |
| HCWDI31 | 953 | 531418 | 1 - 262 | 15 - 276 |  |
|         |     |        |         |          | AA703394, AA128633, AA001607, T91402, AA001264, T84635, AA877628, and T25726.  |
|         |     |        |         |          | AP000456, and AL078474.  |
|         |     |        |         |          | AA843450, AA077952, F19258, AA626678, AA460451, AA340003, AA743956, AA745410, N27351, AA327323, AW438916, F29989, AW406755, A1872227, R91994, AW021583, A1358229, AL041368, AW340844, AW440836, AL365988, AL792108, AW339687, A1635272, AA618158, A1439269, F31204, A1824562, AA077817, A1246796, A1205126, AA515128, AW105538, A1003734, AL133723, A1803348, A1259019, AW236342, A1144055, AW088202, AA932099, AA594145, A1216799, AA377730, AA077223, F37286, AA486680, AA016075, AW304584, AW440976, AA947801, AA515938, AA228329, AL040913, AW269639, A1820539, A1286264, AA515435, AA551509, A1003743, A1291124, W60516, F35659, A1291268, A1963263, AW074398, A1537030, AW419262, AL037554, AA610786, A1267847, AA362700, AA084070, A1653809, AW104748, A1608626, A1003172, AA515224, AA713815, A1138265, AW086257, C16459, A1962050, AA745582, AA077935, AA581342, AA338234, AL079812, AA633892, A1050007, A1917271, AA363989, A1471481, AA744074, AA744088, AA745355, F25203, A120483, AA515051, A1157551, A1929531, A1049722, A1433187, AW162049, AW303876, A1284640, A1816537, A1908628, AA557879, A1873916, AW407576, AA501344, A1469878, T12272, AA659774, AA252729, AA338431, M78177, A1802526, A1952786, A1244758, AW274349, A1890923, AA715606, AW338754, AA341398, A1866964, A1240891, AW303196, AW301350, AW188484, AW029038, F36273, A1306524, A1287284, A1904894, AW166815, |

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| <p> A1474713, AA984191, AW338500, AW265253, AA179136, AA348248, AA557325, AA192740, AA669661, AA178953, AI082510, AW193432, AI688846, AI291823, AA252763, AI312790, AI038099, AI336054, AI355587, AI384555, AW327961, AI139968, AA2929785, AA598824, Z98473, AA729264, AI282832, AW028400, AW327961, AI131034, AI761471, AI591928, AA503258, AW327960, AI926846, AA679872, AA856981, AA501614, AA501600, R68874, HI6048, AA664535, H86388, AA024517, AI890540, AW419118, AI008000, AI610159, AA327782, AI610920, AW242020, AA34484, AW102955, AI051889, AW419161, AI110444, AA078849, AI331664, AW193265, AC004072, AI034379, AC007537, AC006571, AC005826, AC005544, AC005988, AC004152, AC005288, AC004930, AP000008, AI031905, AP000704, Z84469, AB031740, AI031650, AI009179, AI135112, Z95329, AC005409, AI17355, AI030996, AC005389, AI031655, AC005915, AC005899, AI021368, Z82214, AC006080, AC004542, AC005914, AC005864, Z98946, AF181896, AC005324, AC007249, AI022310, AC007388, AI121655, AI121576, AC006024, AI246003, AC006456, AI079340, AI121757, X96421, AI035688, AI035417, AC005043, AC005703, AI034554, AI035588, AP000014, Y10196, AC007239, AC005274, AI121603, U91326, AC006057, AC003013, AP000114, AP000046, AI049557, AI031681, AI031258, AC007695, AC003959, AI049635, AC006026, AC007226, AI078603, AC000026, AF129736, AC006040, AC003084, Z86090, AF027390, AC004167, AI022329, AC006317, AP000359, AF165175, Z68870, AC009464, AI049830, U02048, AC005574, AP000456, Z82190, AC003030, AC006137, AI031983, AC004614, AI121825, L77570, AC005003, AC002451, AC005681, AI022721, AC007319, AC006374, AC004506, AC007021, AI049814, AC003007, AC005041, Z83819, Z83849, AC005738, AC004186, AC005781, AC004854, AI008582, AF031078, AI031297, AI031286, AC004132, AF030876, AC007899, AC005295, AC004972, AI133321, AI035089, AC004491, AC000134, U66059, AI035683, AC002067, AF124730, AI109628, AC005081, AC007919, AI049697, AI097758, AI121653, AC004228, U47924, Z97181, AB023048, U73633, AC004027, AI035530, AI035427, AC005175, AC006160, AC008498, AP000553, AC004909, AI135746, AC004019, AC005755, AP000695, AC005277, AC005839, AI136297, Z76735, AC005537, AF029308, AC004382, AC004903, AI121823, AF042091, AC002487, AC005632, AC003003, AF049895, AC005412, AC000045, AF190465, AI049760, AI049709, AI031577, U95742, AC007533, AI008723, AI033403, AC007955, AI049832, AI022238, AI031597, AC005821, AP000017, AI049839, AI034384, M87918, AC004947, AC005166, AI035518, AC007677, AI008115, Z82215, AC007285, Z98885, Z83822, AC008125, AC006480, AI049776, AC006030, AC004008, Z95115, AI022170, AP000330, AC004889, AI049757, U91322, AC007011, AC000215, AI023553, AC006088, AC004805, AC007510, AC002553, AC005088, AC004991, AC005224, AC024054, D87675, AC0088012, AI049779, AP000459, AC004975, AC006145, AC007262, AF004481, AC002117, Z98950, AI031279, AC005291, Z98751, AC004770, AC007666, AC005678, S48196, AI034408, X53795, AC006353, AI096791, AC002543, Z83001, AC005264, </p> |  |  |  |  |
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|         |     |        |         |          |   |
|---------|-----|--------|---------|----------|---|
| HCWDL45 | 954 | 523227 | 1 - 440 | 15 - 454 | X55448, AC006388, Z85987, AL021940, AC004029, and AC005011.   |
| HCWDL89 | 955 | 697736 | 1 - 410 | 15 - 424 | AC003678, and AC003689.   |
| HCWDL19 | 956 | 669721 | 1 - 356 | 15 - 370 | AA279751.   |
| HCWDL45 | 957 | 889416 | 1 - 397 | 15 - 411 | Z98747  |
| HCWDL68 | 958 | 752320 | 1 - 163 | 15 - 177 | AA315353.   |
| HCWDM02 | 959 | 920505 | 1 - 413 | 15 - 427 |   |
| HCWDM06 | 960 | 935898 | 1 - 175 | 15 - 189 |   |
| HCWDM07 | 961 | 953742 | 1 - 468 | 15 - 482 |   |
| HCWDM14 | 962 | 849962 | 1 - 370 | 15 - 384 | AW275378, AA551080, AA971039, D455576, Z606409, and Z646408.  |
| HCWDM23 | 963 | 676215 | 1 - 449 | 15 - 463 |   |
| HCWDM60 | 964 | 754785 | 1 - 324 | 15 - 338 |   |
| HCWDM79 | 965 | 578967 | 1 - 340 | 15 - 354 |   |
| HCWDM15 | 966 | 557862 | 1 - 193 | 15 - 207 | AF049574.   |
| HCWDM60 | 967 | 861882 | 1 - 273 | 15 - 287 | AW104830, and Z99714.   |
| HCWDO11 | 968 | 967364 | 1 - 339 | 15 - 353 |   |
| HCWDO56 | 969 | 961273 | 1 - 516 | 15 - 530 |   |
| HCWDO65 | 970 | 920523 | 1 - 424 | 15 - 438 |   |
| HCWDP85 | 971 | 747141 | 1 - 282 | 15 - 296 |   |
| HCWDO35 | 972 | 573577 | 1 - 311 | 15 - 325 |   |
| HCWDR01 | 973 | 839104 | 1 - 465 | 15 - 479 |   |
| HCWDR42 | 974 | 529354 | 1 - 285 | 15 - 299 | AC022517.   |
| HCWDR63 | 975 | 849899 | 1 - 531 | 15 - 545 | AC006146.   |
| HCWDR86 | 976 | 527690 | 1 - 513 | 15 - 527 | H47333, AA465102, AA614574, AC006343, AL049759, AC004876, AC006515, AC007057, AC005370, AL096755, AC004084, AC005037, and AC005488.   |
| HCWDR89 | 977 | 787025 | 1 - 283 | 15 - 297 | AA158919.   |
| HCWDS10 | 978 | 880973 | 1 - 410 | 15 - 424 |   |
| HCWDS19 | 979 | 418009 | 1 - 203 | 15 - 217 |   |
| HCWDS26 | 980 | 684696 | 1 - 370 | 15 - 384 | AI859744, AA525331, AW249151, AI720943, AA715075, AI567391, AA715173, AA482928, AA209208, AA774098, AW372037, AL049569, AC004962, U82828, Z97054, Z84466, AC004087, AC007684, AC006312, AC005971, AL034420, AL021154, AC003108, AC007298, AC002477, AC005527, AC003003, AL031663, AC007160, AF001549, AF109907, AL049843, AC005280, AC004520, Z97353, AC005399, AP000213, AC004222, AC002540, AC007685, AP000135, AL117258, Z98949, AC005914, Z95115, AC005529, AC004554, AP000031, AC006116, AC002402, AC006077, AC005324, AL133245, AC006006, AC005618, U96409, Z82206, AC006210, AC006195, AC004884, AC005235, AC007686, AL034429, AC002349. |

|         |     |        |         |          |   |
|---------|-----|--------|---------|----------|---|
|         |     |        |         |          | AC003035, AC005661, AC005921, AL021918, AC005531, AL035455, AP000697, AC007016, AL049589, AC005562, AC006033, AC002366, Z85996, AC007308, AL050341, U91321, AC003042, AC005694, AL021396, AL031666, AC005901, AC007242, AF067844, AL022315, AF111168, AC002544, AC005519, AC005480, AB020878, AL121852, AC0007386, AC004796, AC004811, AC005722, AP000354, AF001548, AL136504, AC002040, AC0007263, AC002364, AL034395, AC004655, AC005778, AC006012, AC005548, AL035405, AB023048, AC009044, AC002365, AC002123, AC004167, AC005822, AC005225, AC002436, AC007226, AC004938, AC004912, AC007182, AC004638, AC007688, U91318, AC004966, AL132987, AL109984, AC006480, AC005015, AC006214, AL022721, Z93930, AC010206, AC004605, AL035683, AC002542, AC005069, AC002044, AC006057, AC004106, AL109963, AC003037, AC005191, AC007537, AC002369, AC002400, Y18000, AC005105, AL122023, Z77249, AC002558, Z84484, AC006474, AP000170, AP000055, AP000123, AC007388, AC007676, Z82190, AC002431, AL031577, AC005102, AF031076, AC005409, AC007225, AC005070, AL033527, AC005972, AC002470, AC004828, AL035587, AL023553, AC003376, AC006115, AC004593, AC006544, AC007376, AP000313, AL133371, AC005940, AC004883, AP000194, AP000109, AP000117, AC000134, AL008582, AP000088, AL035106, AC005839, AL022316, AC008008, AC005332, AC004996, AP000044, AP000112, AC005037, AC005844, Z99496, AP000050, AL049759, AC007510, AL117355, AL049765, AL031055, AL003147, AC002350, AF031078, AP000500, AC003684, AC007731, AF030876, AL049839, AC006571, AL109628, AC005500, Z98030, AC005902, AL031311, Z95331, AL024507, AC007546, AP000493, AF020503, AC008170, AC002492, AC008125, AC002563, Z98036, AC006111, AL035398, U95743, AL080243, AC008064, Z83819, AP000694, AC004893, AC003030, and AC004560. |
| HCWDS40 | 981 | 523301 | 1 - 427 | 15 - 441 | AA093224, N89520, and AF045432.   |
| HCWDS41 | 982 | 669754 | 1 - 352 | 15 - 366 | A1937612, AA729747, AW081591, T57592, and AC005261  |
| HCWDS48 | 983 | 861849 | 1 - 425 | 15 - 439 | A1049996, A1538540, R94288, AA365586, A952900, AC004253, AC004815, AC005529, AC004686, AC002351, AC005722, AC009178, AL049709, AL003147, L44140, AC005231, AC005071, AL135744, AC007676, AC004895, Z99716, AC008372, AC002126, AC000120, AC006241, AC005527, U48696, AC005841, AC006486, AC002316, AC004024, AL121852, AC006023, AC005703, Z68324, AL031767, AL031848, AC005781, AC006538, AC006084, AC006285, AL080243, AC004820, AL035413, AL133448, Z93023, AP000552, AL022721, AF196779, AC009464, AL050307, AC005348, AC004623, AL109799, AC004067, AC004887, AC034420, AL117694, AP000688, AC004890, AC011311, AP000513, AC007225, AC002477, AC007376, AL031680, AC016025, AF196969, AL133249, AC004526, AC002073, AC004263, AL021578, Z85987, AC002365, and AC007686.  |
| HCWDS55 | 985 | 861943 | 1 - 441 | 15 - 455 |   |
| HCWDS59 | 986 | 934914 | 1 - 417 | 15 - 431 | N83993, N83168, AC004924, and AF045432.   |

|         |     |        |           |          |  |
|---------|-----|--------|-----------|----------|--|
| HCWDS61 | 987 | 741992 | 1 - 394   | 15 - 408 | AA406404, AW405796, AA233053, A1741861, H67245, AA292217, A1301933, R69395, H43955, AA625270, AA371992, A1033494, N42102, AW025130, AA010129, A1870802, R48046, A1799541, H26714, A1304348, A1017809, A110484, AA056473, A1220164, AA234535, A1208430, A1470071, A1560756, H81562, H26715, A1131097, AA232686, AA2C04258, N88601, AA247964, N88782, AA095359, H58760, N83168, N89520, N84855, N83991, AA247827, N83992, AA096046, N84048, S78798, AF103726, U48696, AF045432, AF039698, AF102850, and AR066487.  |
| HCWDS83 | 988 | 612257 | 1 - 480   | 15 - 494 | AC005940.  |
| HCWDS91 | 989 | 557931 | 1 - 431   | 15 - 445 | N88601, N84855, N89520, N83992, AA095359, AA247827, AA247964, N84048, N83991, AA096046, N83168, N88782, H58760, AA093224, N84718, N83993, AA095641, AA096066, N86694, N84712, AA471338, N55698, N88518, N84830, N84829, AA215908, AF045432, AF103726, S78798, AR066487, AF039698, AF102850, U48696, AF032922, A1243486, and U39066.  |
| HCWDS94 | 990 | 959650 | 1 - 417   | 15 - 431 | N57782, A157128, A1038029, AA129000, A1061313, AA349923, A1520984, A1174489, A1828721, A1285651, R79396, AW192002, AW337817, AA531660, M77964, AW021674, AA557945, AA364147, AA135761, AA018258, AW021847, A1572680, AW069110, A1570470, N80469, A1308529, N55076, AA610644, AA205931, AA579417, H24331, F17312, AA526659, A1345256, A1708565, A1307563, N99564, H52795, A1003391, AA828840, AA730530, H59856, AA526658, A1003068, AW020682, A1084999, A1760850, AA218684, AA084320, A1567676, AA676462, AA084148, AW028376, H53373, A1124558, AW341878, AA834850, AA598497, R87909, AA053463, R86876, A1570067, T59937, AA468923, R88475, AA083850, AW069769, AA372646, AA632869, AA293809, H81012, AA411337, A1884404, F04021, AA613765, A1926876, AA015948, AA658443, AA748071, F24745, AW243864, H57065, AL044566, N52581, N55296, AA227713, AA369465, AA640305, H05066, AC004983, AC005234, AC003102, A1079342, AF111168, AD000671, K03021, AL031291, AL022318, AP000691, AC005031, AC005046, LA7222, AC005331, AC004999, Z98200, AL133448, AL049540, AC006088, AC005839, I34294, AC005412, AL121655, AC005332, Z97630, Z93017, AL121825, AC007537, AC006953, AC005180, AL080243, AL035071, Z84488, AC005837, AC002369, AL035587, AC005089, AC007055, U85195, AP000692, LA7229, AC006946, AC004491, AC005081, AC006116, AE000658, AC005329, Z94161, AC002310, AC005102, AC004099, AC007051, AC005755, AC005696, AC006277, AC007919, AP000689, AC005355, AC007546, AC005666, AC005768, AC005011, AC002312, AL034548, AL050321, LA7227, AL135744, AC005682, AC007676, AC012627, AC005300, AB001523, AC000379, A1700039, AC006538, AC006231, |
| HCWDS91 | 989 | 557931 | 1 - 431   | 15 - 445 |  |
| HCWDS94 | 990 | 959650 | 1 - 417   | 15 - 431 |  |
| HCWDT12 | 991 | 573487 | 1 - 368   | 15 - 382 |  |
| HCWDT84 | 992 | 542238 | 1 - 320   | 15 - 334 |  |
| HCWDT17 | 993 | 974478 | 1 - 684   | 15 - 698 |  |
| HCWDS91 | 989 | 557931 | 1 - 431   | 15 - 445 |  |
| HCWDS94 | 990 | 959650 | 1 - 417   | 15 - 431 |  |
| HCWDT12 | 991 | 573487 | 1 - 368   | 15 - 382 |  |
| HCWDT84 | 992 | 542238 | 1 - 320   | 15 - 334 |  |
| HCWDT17 | 993 | 974478 | 1 - 684   | 15 - 698 |  |
| HCWDS91 | 989 | 557931 | 1 - 431   | 15 - 445 |  |
| HCWDS94 | 990 | 959650 | 1 - 417   | 15 - 431 |  |
| HCWDT12 | 991 | 573487 | 1 - 368   | 15 - 382 |  |
| HCWDT84 | 992 | 542238 | 1 - 320   | 15 - 334 |  |
| HCWDT17 | 993 | 974478 | 1 - 684   | 15 - 698 |  |
| HCWDS91 | 989 | 557931 | 1 - 431   | 15 - 445 |  |
| HCWDS94 | 990 | 959650 | 1 - 417   | 15 - 431 |  |
| HCWDT12 | 991 | 573487 | 1 - 368   | 15 - 382 |  |
| HCWDT84 | 992 | 542238 | 1 - 320   | 15 - 334 |  |
| HCWDT17 | 993 | 974478 | 1 - 684   | 15 - 698 |  |
| HCWDS91 | 989 | 557931 | 1 - 431   | 15 - 445 |  |
| HCWDS94 | 990 | 959650 | 1 - 417   | 15 - 431 |  |
| HCWDT12 | 991 | 573487 | 1 - 368   | 15 - 382 |  |
| HCWDT84 | 992 | 542238 | 1 - 320   | 15 - 334 |  |
| HCWDT17 | 993 | 974478 | 1 - 684   | 15 - 698 |  |
| HCWDS91 | 989 | 557931 | 1 - 431   | 15 - 445 |  |
| HCWDS94 | 990 | 959650 | 1 - 417   | 15 - 431 |  |
| HCWDT12 | 991 | 573487 | 1 - 368   | 15 - 382 |  |
| HCWDT84 | 992 | 542238 | 1 - 320   | 15 - 334 |  |
| HCWDT17 | 993 | 974478 | 1 - 684   | 15 - 698 |  |
| HCWDS91 | 989 | 557931 | 1 - 431   | 15 - 445 |  |
| HCWDS94 | 990 | 959650 | 1 - 417   | 15 - 431 |  |
| HCWDT12 | 991 | 573487 | 1 - 368   | 15 - 382 |  |
| HCWDT84 | 992 | 542238 | 1 - 320   | 15 - 334 |  |
| HCWDT17 | 993 | 974478 | 1 - 684   | 15 - 698 |  |
| HCWDS91 | 989 | 557931 | 1 - 431   | 15 - 445 |  |
| HCWDS94 | 990 | 959650 | 1 - 417   | 15 - 431 |  |
| HCWDT12 | 991 | 573487 | 1 - 368   | 15 - 382 |  |
| HCWDT84 | 992 | 542238 | 1 - 320   | 15 - 334 |  |
| HCWDT17 | 993 | 974478 | 1 - 684   | 15 - 698 |  |
| HCWDS91 | 989 | 557931 | 1 - 431   | 15 - 445 |  |
| HCWDS94 | 990 | 959650 | 1 - 417   | 15 - 431 |  |
| HCWDT12 | 991 | 573487 | 1 - 368   | 15 - 382 |  |
| HCWDT84 | 992 | 542238 | 1 - 320   | 15 - 334 |  |
| HCWDT17 | 993 | 974478 | 1 - 684   | 15 - 698 |  |
| HCWDS91 | 989 | 557931 | 1 - 431   | 15 - 445 |  |
| HCWDS94 | 990 | 959650 | 1 - 417   | 15 - 431 |  |
| HCWDT12 | 991 | 573487 | 1 - 368   | 15 - 382 |  |
| HCWDT84 | 992 | 542238 | 1 - 320   | 15 - 334 |  |
| HCWDT17 | 993 | 974478 | 1 - 684   | 15 - 698 |  |
| HCWDS91 | 989 | 557931 | 1 - 431   | 15 - 445 |  |
| HCWDS94 | 990 | 959650 | 1 - 417   | 15 - 431 |  |
| HCWDT12 | 991 | 573487 | 1 - 368   | 15 - 382 |  |
| HCWDT84 | 992 | 542238 | 1 - 320   | 15 - 334 |  |
| HCWDT17 | 993 | 974478 | 1 - 684   | 15 - 698 |  |
| HCWDS91 | 989 | 557931 | 1 - 431   | 15 - 445 |  |
| HCWDS94 | 990 | 959650 | 1 - 417   | 15 - 431 |  |
| HCWDT12 | 991 | 573487 | 1 - 368   | 15 - 382 |  |
| HCWDT84 | 992 | 542238 | 1 - 320   | 15 - 334 |  |
| HCWDT17 | 993 | 974478 | 1 - 684   | 15 - 698 |  |
| HCWDS91 | 989 | 557931 | 1 - 431   | 15 - 445 |  |
| HCWDS94 | 990 | 959650 | 1 - 417   | 15 - 431 |  |
| HCWDT12 | 991 | 573487 | 1 - 368   | 15 - 382 |  |
| HCWDT84 | 992 | 542238 | 1 - 320   | 15 - 334 |  |
| HCWDT17 | 993 | 974478 | 1 - 684   | 15 - 698 |  |
| HCWDS91 | 989 | 557931 | 1 - 431   | 15 - 445 |  |
| HCWDS94 | 990 | 959650 | 1 - 417   | 15 - 431 |  |
| HCWDT12 | 991 | 573487 | 1 - 368   | 15 - 382 |  |
| HCWDT84 | 992 | 542238 | 1 - 320   | 15 - 334 |  |
| HCWDT17 | 993 | 974478 | 1 - 684   | 15 - 698 |  |
| HCWDS91 | 989 | 557931 | 1 - 431   | 15 - 445 |  |
| HCWDS94 | 990 | 959650 | 1 - 417   | 15 - 431 |  |
| HCWDT12 | 991 | 573487 | 1 - 368   | 15 - 382 |  |
| HCWDT84 | 992 | 542238 | 1 - 320   | 15 - 334 |  |
| HCWDT17 | 993 | 974478 | 1 - 684   | 15 - 698 |  |
| HCWDS91 | 989 | 557931 | 1 - 431   | 15 - 445 |  |
| HCWDS94 | 990 | 959650 | 1 - 417   | 15 - 431 |  |
| HCWDT12 | 991 | 573487 | 1 - 368   | 15 - 382 |  |
| HCWDT84 | 992 | 542238 | 1 - 320   | 15 - 334 |  |
| HCWDT17 | 993 | 974478 | 1 - 684   | 15 - 698 |  |
| HCWDS91 | 989 | 557931 | 1 - 431   | 15 - 445 |  |
| HCWDS94 | 990 | 959650 | 1 - 417   | 15 - 431 |  |
| HCWDT12 | 991 | 573487 | 1 - 368   | 15 - 382 |  |
| HCWDT84 | 992 | 542238 | 1 - 320   | 15 - 334 |  |
| HCWDT17 | 993 | 974478 | 1 - 684   | 15 - 698 |  |
| HCWDS91 | 989 | 557931 | 1 - 431   | 15 - 445 |  |
| HCWDS94 | 990 | 959650 | 1 - 417   | 15 - 431 |  |
| HCWDT12 | 991 | 573487 | 1 - 368   | 15 - 382 |  |
| HCWDT84 | 992 | 542238 | 1 - 320   | 15 - 334 |  |
| HCWDT17 | 993 | 974478 | 1 - 684   | 15 - 698 |  |
| HCWDS91 | 989 | 557931 | 1 - 431   | 15 - 445 |  |
| HCWDS94 | 990 | 959650 | 1 - 417   | 15 - 431 |  |
| HCWDT12 | 991 | 573487 | 1 - 368   | 15 - 382 |  |
| HCWDT84 | 992 | 542238 | 1 - 320   | 15 - 334 |  |
| HCWDT17 | 993 | 974478 | 1 - 684   | 15 - 698 |  |
| HCWDS91 | 989 | 557931 | 1 - 431   | 15 - 445 |  |
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| HCWDT17 | 993 | 974478 | 1 - 684   | 15 - 698 |  |
| HCWDS91 | 989 | 557931 | 1 - 431   | 15 - 445 |  |
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| HCWDS94 | 990 | 959650 | 1 - 417   | 15 - 431 |  |
| HCWDT12 | 991 | 573487 | 1 - 368   | 15 - 382 |  |
| HCWDT84 | 992 | 542238 | 1 - 320   | 15 - 334 |  |
| HCWDT17 | 993 | 974478 | 1 - 684   | 15 - 698 |  |
| HCWDS91 | 989 | 557931 | 1 - 431   | 15 - 445 |  |
| HCWDS94 | 990 | 959650 | 1 - 417   | 15 - 431 |  |
| HCWDT12 | 991 | 573487 | 1 - 368   | 15 - 382 |  |
| HCWDT84 | 992 | 542238 | 1 - 320   | 15 - 334 |  |
| HCWDT17 | 993 | 974478 | 1 - 684   | 15 - 698 |  |
| HCWDS91 | 989 | 557931 | 1 - 431   | 15 - 445 |  |
| HCWDS94 | 990 | 959650 | 1 - 417   | 15 - 431 |  |
| HCWDT12 | 991 | 573487 | 1 - 368   | 15 - 382 |  |
| HCWDT84 | 992 | 542238 | 1 - 320   | 15 - 334 |  |
| HCWDT17 | 993 | 974478 | 1 - 684   | 15 - 698 |  |
| HCWDS91 | 989 | 557931 | 1 - 431   | 15 - 445 |  |
| HCWDS94 | 990 | 959650 | 1 - 417   | 15 - 431 |  |
| HCWDT12 | 991 | 573487 | 1 - 368   | 15 - 382 |  |
| HCWDT84 | 992 | 542238 | 1 - 320   | 15 - 334 |  |
| HCWDT17 | 993 | 974478 | 1 - 684   | 15 - 698 |  |
| HCWDS91 | 989 | 557931 | 1 - 431   | 15 - 445 |  |
| HCWDS94 | 990 | 959650 | 1 - 417   | 15 - 431 |  |
| HCWDT12 | 991 | 573487 | 1 - 368   | 15 - 382 |  |
| HCWDT84 | 992 | 542238 | 1 - 320   | 15 - 334 |  |
| HCWDT17 | 993 | 974478 | 1 - 684   | 15 - 698 |  |
| HCWDS91 | 989 | 557931 | 1 - 431   | 15 - 445 |  |
| HCWDS94 | 990 | 959650 | 1 - 417   | 15 - 431 |  |
| HCWDT12 | 991 | 573487 | 1 - 368   | 15 - 382 |  |
| HCWDT84 | 992 | 542238 | 1 - 320   | 15 - 334 |  |
| HCWDT17 | 993 | 974478 | 1 - 684   | 15 - 698 |  |
| HCWDS91 | 989 | 557931 | 1 - 431   | 15 - 445 |  |
| HCWDS94 | 990 | 959650 | 1 - 417   | 15 - 431 |  |
| HCWDT12 | 991 | 573487 | 1 - 368   | 15 - 382 |  |
| HCWDT84 | 992 | 542238 | 1 - 320   | 15 - 334 |  |
| HCWDT17 | 993 | 974478 | 1 - 684   | 15 - 698 |  |
| HCWDS91 | 989 | 557931 | 1 - 431   | 15 - 445 |  |
| HCWDS94 | 990 | 959650 | 1 - 417   | 15 - 431 |  |
| HCWDT12 | 991 | 573487 | 1 - 368   | 15 - 382 |  |
| HCWDT84 | 992 | 542238 | 1 - 320   | 15 - 334 |  |
| HCWDT17 | 993 | 974478 | 1 - 684   | 15 - 698 |  |
| HCWDS91 | 989 | 557931 | 1 - 431   | 15 - 445 |  |
| HCWDS94 | 990 | 959650 | 1 - 417   | 15 - 431 |  |
| HCWDT12 | 991 | 573487 | 1 - 368   | 15 - 382 |  |
| HCWDT84 | 992 | 542238 | 1 - 320   | 15 - 334 |  |
| HCWDT17 | 993 | 974478 | 1 - 684   | 15 - 698 |  |
| HCWDS91 | 989 | 557931 | 1 - 431   | 15 - 445 |  |
| HCWDS94 | 990 | 959650 | 1 - 417</ |          |  |

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|---|--|--|--|----------|--|
| AB003151, AL049759, L44140, AC000070, AF196779, AC100082, AL049694, AC004859, Z81364, AC005921, AL049757, Z95114, U91323, AL078584, AC006449, AC006443, AL121653, AC000159, AC005828, AC004765, AL021407, AL031286, D28126, AC006679, AL022163, AP000260, Z98946, AP000210, AP000132, AP000213, AC006942, Z93024, AL021877, AC007536, AL096701, AP000555, U07562, AL022315, A1246003, AP000135, AL035086, AP000099, U80017, AL133163, L78810, AC003098, AC005971, AP000156, AC002492, AP000036, AC005231, AL050318, AL049872, AP000248, AC005800, AC005821, AL022226, AP000031, AL033533, AC005280, AC004019, AC005484, AL049869, AL031225, AC002381, AC008041, AF001549, AC003957, AL109798, AC007371, AC006040, AL031259, AF045555, AC006006, AC002045, AF015416, AC002553, AL121658, AL035460, AP000557, AL020997, AC006075, AC004997, AL031774, AC001737, U91326, Z69705, Z83844, AC002039, AP000317, AC003665, AP000051, AP000119, AP000166, AL008719, AC004000, AC004150, AL031589, AP000500, AC008372, AC002470, AC006509, AL022302, AC002094, AL034420, AL009179, AC004650, AL022316, AC004985, AC004893, AC000025, AP000553, AC004754, AP000179, AL023799, AF196969, AC007421, AL024508, AC005585, AP000547, AC002464, AC006222, AC006468, AC004953, AC003083, AL139054, AP000255, AC009405, AC004242, AL035458, AC005200, AC005527, AL024498, AC005606, AL049781, U95739, AL021453, AL121769, AC004659, AC002565, AC005323, U95742, AP001052, AC004895, AC001228, AC005520, AP000152, AC000388, AC004703, AC002543, AC004975, AL022165, AL109984, AC004673, AC005039, Z95116, AC004263, AC000516, AL049553, and AC004973. |  |  |  |          |  |
| AC011625.   |  |  |  | 15 - 386 |  |
|   |  |  |  | 15 - 358 |  |
|   |  |  |  | 15 - 308 |  |
|   |  |  |  | 15 - 237 |  |
| H05821, A1821975, A1022708, R98591, AC003662, AC004966, Z99128, AC005510, AC004859, AL079342, AC005067, AL031577, AC007425, U62317, AC004686, AL049631, AP001040, AC006014, AB023051, AP000512, Z74739, AC003109, AC004834, AL022238, AC009509, AC005488, AC000026, AC002059, AC005874, AF134471, AC005844, AC005737, AC012025, AC005476, AC002045, AC000039, AC004750, U95740, Z83845, AC002551, AC005015, and AP000496.   |  |  |  |          |  |
| AA828984, AA365347, N43757, AA450199, A1921649, A1376100, AW074059, A1356904, A1922654, A1564284, C18357, C18360, AA658235, N53150, AA100489, Z785550, A1956124, A1453383, AA593060, AA428414, A192337, F76152, A1570138, AA829106, AA776936, AA828704, AA776921, T16592, AA584749, M86058, AA228329, AA651964, AA328591, AA303261, AA553595, AA723017, F24284, N59782, AA320748, A1371429, W07032, AA703692, AA397572, A1372413, A1758582, A1364809, AA176924, AA927637, A1340453, AA558656, A1561335, AA372875, A1061334, A1053672, A1334443, AA919037, AA196020, A1349874.   |  |  |  | 15 - 347 |  |
|   |  |  |  | 15 - 547 |  |



|         |      |        |         |          |   |
|---------|------|--------|---------|----------|---|
| HCWDW43 | 1002 | 714423 | 1 - 345 | 15 - 359 | <p>C16624, AW117750, A1688846, A1921188, AW303876, A1963720, AA528516, AL046409, A1344844, AC007848, AC004712, AL121603, AC006277, M62424, AR025392, AP000352, U96409, AC003381, AC004066, AL109799, Z84718, AC005338, AL121603, AR025392, AP000496, AC004862, U63721, AP000134, AP000212, AF107885, AC005866, U166059, X78837, AP000494, AP000350, AF131217, AC003983, AP000351, AL121934, AC006333, Z99774, AP000692, AC004592, Z92540, AC008115, L49046, AC005887, AC004992, AC003966, AC005618, AL022329, AC007536, X78901, AC006538, AL021918, AC006241, U47924, AC004802, AC006120, AL096862, Z84474, AL109984, AC005856, U95740, AC006332, AC007263, AL022323, AC000356, AL031733, AC004638, AC003112, AL049613, AP000512, AL022318, AL079340, AL049757, AC004933, AC005696, AP000034, AC004741, AC007435, AC0005690, AL020993, AL009031, AC002326, AC005940, AC006007, AL133382, AL035681, AL121591, AC007285, AL008629, AL031255, AF023268, AC006146, AL035460, AC006462, AL049776, X53548, AC005625, AP000252, AC006077, AL049610, AC004542, AP000031, AL139054, AP001053, AC006285, AC007680, AL035071, AL133485, AC009516, AL109657, Z99496, AC008134, AC003035, U07977, AL121915, AC004804, AP000553, AC002508, AL016026, AL049712, AL021155, AC004010, AP000354, AC003050, AC005231, AC006511, AP000552, AP000230, AP000144, AC004895, AC020663, AC000353, AC007707, AC008173, Z86662, AP000555, AC006211, AL049766, AC004948, AC005911, AC003977, AL049759, AC004168, AC006449, AL132987, AL031276, AC005284, AF190465, AC004468, AC004383, AC002544, AL035361, AC005998, AC000003, AF023460, AC004659, AF015153, AC004087, AL021877, AL023284, AC004650, AC005703, AF108083, AC002364, AC006001, AC006157, AC005486, AF165926, and AL133245.</p> <p>AW419201, AW274349, AF625244, A1613459, AL042420, AW302013, A1284640, A1312309, AW166815, AL119691, AA713815, AL471481, AA682912, AA581903, AW162049, A1292531, AL046409, A1281881, AA493464, AW073470, AW167799, AA531372, AA634227, A1859742, AW020340, F46273, AW303196, AW103981, AF177861, A1339850, AA425283, A4601492, AA521323, AA502103, AA630476, AW085751, AW301350, AA229005, AW103758, A1310670, A1567674, AW265385, F30933, AA244357, AW304584, AW3411992, A1754955, A17521929, AW072963, AL038785, AF102049, AA521399, A1368745, AA593247, AA489390, A1935827, A1061143, AL036334, N53150, A1801591, AA631915, AA525824, A1889781, A1611990, AW162314, A1367975, AA469451, AA584201, AL042753, AA806796, A1747703, AA837677, AW265468, AA595661, A121039, AW162332, AC005808, AC007051, AC007919, AF077058, AP015151, AL121934, AC005907, AL023575, AC007066, AC005754, AC005049, AC006511, X75335, AL139054, AL034420, AL009181, AC005330, AL049636, AL008582, AC007216, AL031680, AC005225, AL035659, AC002310, AC006037, AL009179, AC002544, U91326, AP000503, AF134726, D83989, AC004134, AC004099, Z85986, Z93023, AL022322, AC005231, AL035460, AL050312, AL049874, AC016026, AC006277, AP000704, A126225, AC007845,</p> |
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|---|------|--------|---------|----------|--|
| AC004848, AC007227, AC007151, AP000563, AC002477, AC005082, AC005899, AC006076, M94631, AC002470, AC006312, AC005914, AL049844, AL021878, AL049712, AL133448, AC004895, AC004150, AL080243, Z97056, AL135744, AC004477, AC006468, AC004952, AC005632, AP000359, AC004890, AL096776, U63721, AL022316, AC006132, AL132718, AC004686, AF207550, AC000052, AC005081, AC006125, AP000211, AP000133, U14700, AC004921, U14698, AL121655, AL109963, AL008726, AP000095, AL031446, AC005694, AC005164, AC005776, AP000239, AC005324, AC004019, AL031602, AC007537, AF111168, AC004770, AL109798, AC005527, AL121603, AC000025, U15177, AC005520, AC005670, AL031728, AL020993, AC007729, AC006141, AC005184, Z86090, AC007899, AC003682, AL049757, AL049569, AL031311, AP001172, AL031229, AC005514, AL003147, AC005837, AC004999, AC002564, AL109984, AL109628, AL011930, AC004832, AC002347, AC006373, AC005696, AL034421, AC005594, AC006992, AF124523, AF109907, AL031432, AL022329, AC002553, AC005180, D83253, AC005746, AC005480, AC007437, AC003879, AC002563, AL021808, AC007686, AC004228, Z83844, AC005736, AL031321, AC005037, AC005529, AF196779, AC004485, AC003109, AC004242, AC002350, AL008719, AF047825, AC009516, AL049758, AL035587, Z83846, AC004531, M87919, AC004876, AF165926, AP000111, AP000043, AC004918, AC000120, U80017, AL031589, AC002365, Z86061, AC006126, AC002465, AC007324, AC004559, AC004812, AL096791, AL049777, AC006449, AC005740, U85195, AP000967, AL132712, AC006360, U95742, AC005544, AC005785, M37551, AL020995, X87344, AP001039, AC004655, AC007043, X74558, AC005886, AC005913, AC005546, AC005911, AC005295, AC006948, AC007676, AC006543, and AP001037. |      |        |         |          |  |
| AC004961.   |      |        |         |          |  |
| N83991.   |      |        |         |          |  |
| AA341865, AA363003, N40092, A1819262, AL061303, T30418, AL1372604, AA322542, AW169038, H53217, AA078184, AA668166, T97322, AA572753, AA455205, AL159200, AA626840, AA515254, A1188049, A1270647, AA010973, AA420801, AL048275, AW247389, AA683091, AA350406, F00564, R95840, AA215585, AL079869, R49266, AA047849, N47855, AW327852, N52323, AA078137, N13851, AA713714, N72170, AF034180, AA470567, H60249, AL675581, H78898, H67649, AW068580, AA513884, AC001980, AC006241, AL031680, AC004552, Z93017, AC004805, AC002425, AC005069, AC005536, AC007011, AL109613, AC005632, Y14768, AC006254, AC007216, AC005920, AC006312, AP000505, AC002073, AC007386, AC002352, AF196969, AF109907, AP000345, AL096701, AP000346, AL031846, AL031597, AC002400, AC003013, AC002398, AL049780, AL024508, AC005829, AC005089, Z99716, AL031662, AL136295, Z91930, AC004500, AP000359, AL080242, AL133312, AL024498, AC007388, AC006565, AL008718, AC005399, AC007276, AC005578, AC004895, AC011311, AP000696, AC004796, AC004491, AC006141, AC005231, AL031577.  |      |        |         |          |  |
| HCWDW57   | 1003 | 927656 | 1 - 235 | 15 - 249 |  |
| HCWDW61   | 1004 | 574859 | 1 - 351 | 15 - 365 |  |
| HCWDW62   | 1005 | 849960 | 1 - 586 | 15 - 600 |  |
| HCWDW73   | 1006 | 861934 | 1 - 373 | 15 - 387 |  |

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|---------|------|--------|---------|----------|---|
|         |      |        |         |          | 283847, AC005189, AC005015, AF200465, AC000085, AC005598, AC006075, AC007358, AL031602, AC005280, U15177, AC004843, AC004849, AL096703, AC001231, Z82194, AC005822, AC006080, AC004638, AC005954, AP000065, AC004263, AC007086, AC006153, AL121769, AC004531, AC007066, AC007263, AC005004, AL049760, AC005940, AC00159, AC006299, AC006480, AC004821, AC004477, AL121658, AC005722, AC0034026, AC007227, and AF196779.   |
| HCWDW74 | 1007 | 952698 | 1 - 421 | 15 - 435 |   |
| HCWDW78 | 1008 | 773698 | 1 - 336 | 15 - 350 |   |
| HCWDW90 | 1009 | 529233 | 1 - 301 | 15 - 315 |   |
| HCWDW93 | 1010 | 574155 | 1 - 401 | 15 - 415 |   |
| HCWDW94 | 1011 | 753166 | 1 - 942 | 15 - 956 |   |
| HCWDW96 | 1012 | 975401 | 1 - 52  | 15 - 66  |   |
| HCWDX19 | 1013 | 523233 | 1 - 447 | 15 - 461 |   |
| HCWDX22 | 1014 | 967361 | 1 - 415 | 15 - 429 |   |
| HCWDX36 | 1015 | 861932 | 1 - 366 | 15 - 380 | AI022659, AI248903, RI6508, AL036251, AI688963, AI537814, AC005015, AC006512, AC000120, AF173228, AF053356, AC000019, AL096701, AP000558, AC007263, AC005519, AC002301, U47924, AC005902, AC004491, AL022316, AC005081, and AF003626.   |
| HCWDX39 | 1016 | 573574 | 1 - 332 | 15 - 346 |   |
| HCWDX52 | 1017 | 661568 | 1 - 535 | 15 - 549 | AW339619, AW169183, AI797998, AA595661, W85818, AL042667, AL042670, AL039117, AI744963, AA489390, AI732596, AI439525, AI251696, AA132947, AA748071, AW057760, AI732563, AA180056, AW265468, AW272815, AI1174703, AI285651, AI285651, AL473671, AI250552, AW072963, AI254508, AA664963, AI251284, AI251203, AA564256, N70293, AA729004, AI251034, AI310670, AW409626, AI523205, C14614, AA814719, AA133568, AA598608, AI679486, AI869797, AI284543, AA599712, AA995373, AI224583, AA814503, AA639155, AI088903, AW273201, AW273146, AA425283, T03928, AW303098, AI088529, AA584484, AA503018, AA157876, AW086291, AI690379, AW020094, AW410844, N27340, AA324108, AI254770, AW409621, AA648605, AW069273, AI254267, U85195, AE000658, AC004263, Z99291, AP000510, AC002312, AC005837, AL009181, AC004587, AI109827, AL034420, AL139054, AF196779, AC005154, AC0031293, AC002477, AC007384, AC004196, AB023048, AC006162, Z98036, AC0066011, AC005740, AC002302, AC009516, AC005215, AL13163, AC005228, Z98051, AC007216, AC003029, AL133448, AC004973, AL121652, AL031311, AL135744, AC005041, L44140, AP000133, AP000211, AC002430, AL034549, AC005355, AC002314, AC004634, AC005829, Z95114, AC007240, AL022165, AC005913, AC002996, AI098582, AC005067, AL022334, AL109952, Z84469, AC004522, AL049569, AL035086, AF196969, AC006285, AC005225, AL035587, AC005409, AL031427, AC004148, AC004876, AC005839, AC003665, AC004929, AP000355, AC010205, AL096791, AC005330, AC004812, AP000252, AC005231, U47924, AC004887, AL034421, AC005257, AP000356, |

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|---|------|--------|---------|----------|---|
| 286090, 298742, AC006449, AL022316, D87675, AC002350, AC007226, AF109907, AC009247, AL031281, AP000008, AP000031, 297630, AC007227, AP000691, AC002310, AC000520, 285986, AL109628, AL022313, AP000503, AC016025, AC002369, U80017, AP000159, AL022336, AL096702, AC005911, AC003682, Y18000, AL049830, AC000382, AC000355, AC000379, AC005081, AC005015, 298941, AL050317, AL096774, AC006013, X69907, AL135879, AL121790, AL096701, AC007011, AP000065, U52111, AC006057, AC004106, 285987, 294865, AC012330, AF165926, AC004874, AC004755, AC006241, AC009399, AC006538, AF205538, U78027, AC004765, AC004668, U95742, AC004520, 296074, AL132992, AL022238, AP000248, AC004771, AC002544, AC008018, AC005722, AC005546, AL034429, L78833, AC004859, AC005049, AL035659, AL035684, AC004491, AC00257, AC004835, AC011680, AC004922, AL021918, AC004881, AC004686, AC006479, AJ246003, M89651, AL049757, AC005519, AC005527, AC003112, AC002425, AC002306, AP000704, AC005500, AC005379, 293930, AL031276, AP000553, AL035422, AC004019, AC004815, AC007066, AC005777, AC004253, AC006121, AC002126, AC004647, AC005914, AC005484, AC004804, AP000152, 295703, 283844, AF196971, AC005800, AC006441, AC005058, AC008008, AC006084, AC005670, AF111169, AC004033, AC007731, AC004975, AC005730, AF129756, AC004386, AF134726, 295115, AC003110, AC005726, AC000052, AL009172, AL022323, AC003010, AC005288, AC004858, AC005932, AC008044, AL020993, AC003101, AL080243, AP000511, 269890, 293017, AC007546, AC007934, AL031666, AP000689, AC007151, AC007298, 299128, AC005821, AC005666, AC007421, AC002377, AC006581, AB025285, AL021406, AL12603, AL049697, and AL031584. | 1018 | 920877 | 1 - 340 | 15 - 354 | AL031296, AA081685, T27308, and AA187085. |
| HCWDX65   | 1018 | 920877 | 1 - 340 | 15 - 354 | AL031296, AA081685, T27308, and AA187085. |
| HCWDX76   | 1019 | 932614 | 1 - 226 | 15 - 240 | AL031296, AA081685, T27308, and AA187085. |
| HCWDX85   | 1020 | 861933 | 1 - 330 | 15 - 344 | AL031296, AA081685, T27308, and AA187085. |
| HCWDX47   | 1021 | 573557 | 1 - 303 | 15 - 317 | AL031296, AA081685, T27308, and AA187085. |
| HCWDX13   | 1022 | 657398 | 1 - 383 | 15 - 397 | AL031296, AA081685, T27308, and AA187085. |
| HCWDX29   | 1023 | 576697 | 1 - 203 | 15 - 217 | AL031296, AA081685, T27308, and AA187085. |
| HCWEA30   | 1024 | 681277 | 1 - 396 | 15 - 410 | AL031296, AA081685, T27308, and AA187085. |

|  |      |        |         |          |  |
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| HCWEA65  | 1025 | 840918 | 1 - 214 | 15 - 228 |  |
| HCWEA77  | 1026 | 666180 | 1 - 359 | 15 - 373 |  |
| HCWEA78  | 1027 | 697596 | 1 - 295 | 15 - 309 |  |
| HCWEA82  | 1028 | 719028 | 1 - 356 | 15 - 370 |  |
| HCWEA84  | 1029 | 506718 | 1 - 331 | 15 - 345 |  |
| HCWEA86  | 1030 | 574858 | 1 - 339 | 15 - 353 |  |
| HCWEB11  | 1031 | 975408 | 1 - 65  | 15 - 79  |  |
| HCWEB25  | 1032 | 925102 | 1 - 389 | 15 - 403 |  |
| HCWEB28  | 1033 | 932114 | 1 - 341 | 15 - 355 |  |
| HCWEB33  | 1034 | 925286 | 1 - 352 | 15 - 366 |  |
| HCWEB37  | 1035 | 849854 | 1 - 411 | 15 - 425 |  |
| HCWEB40  | 1036 | 514584 | 1 - 488 | 15 - 502 |  |
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| AF50906, AF79642, AF188390, AF1311647, AF053784, AF328331, AF040054, AF023111, AF679782, AF833875, AF833896, AF732764, AF327624, AF792529, AF644090, AF587565, AF157005, AF13749, AF119838, AF669793, AF581903, AF35374, AF660202, AF1358089, AF162049, AF073470, AF92531, AF054193, AF657835, AF676592, AF885488, AF042856, AF654247, AF020992, AF069783, AF028510, AF0004911, AF068996, AF829036, AF1926728, AF1912401, AF501784, AF533042, AF029038, AF74524, AF821486, AF537020, AF121698, AF064864, AF138455, AF754023, AF7304805, AF992126, AF821814, AF010509, AF226584, AF846935, AF50676, AF042373, AF207385, AF27015, AF773463, AF809546, AF410334, AF492495, AF139850, AF168745, AF801505, AF0888202, AF328446, AF05256, AF049869, AF95115, AF007774, AF29953, AF004531, AF005089, AF007487, AF007687, AF0135587, AF005037, AF004883, AF005921, AF005856, AF022329, AF007204, AF002369, AF005377, AF98941, AF005399, AF022165, AF022476, AF002377, AF005971, AF005726, AF004590, AF1325, AF98743, AF006251, AF007536, AF84480, AF98200, AF9943, AF007030, AF022313, AF005095, AF008115, AF015156, AF007676, AF096701, AF005581, AF023575, AF007227, AF78027, AF95152, AF004859, AF007216, AF006449, AF0135422, AF004797, AF005695, AF049636, AF003070, AF002425, AF96629, AF005224, AF004455, AF049643, AF075098, AF000116, AF005184, AF005701, AF005378, AF005529, AF006088, AF003043, AF005619, AF005368, AF006026, AF99716, AF022238, AF005081, AF004821, AF0131447, AF005261, AF84469, AF136295, AF006023, AF022517, AF007435, AF079340, AF008730, AF049697, AF005722, AF004832, AF82182, AF005520, AF006996, AF049539, AF003108, AF133246, AF95742, AF005180, AF005943, AF004770, AF043471, AF004685, AF97036, AF0066121, AF000065, AF005592, AF000210, AF000132, AF0131282, AF000350, AF004596, AF024509, AF117694, AF004099, AF004098, AF034548, AF024474, AF007688, AF015151, AF004263, AF005972, AF008635, AF005800, AF007277, AF004099, AF000248, AF064861, AF000694, AF008726, AF009516, AF005309, AF000446, AF14768, AF049776, AF006241, AF005808, AF84487, AF021397, AF196779, AF053356, AF82244, AF207550, AF000303, AF004559, AF000353, AF005332, AF006120, AF0131650, AF0002119, AF004638, AF050318, AF1109627, AF000505, AF000359, AF000553, AF006512, AF005057, AF005736, AF051519, AF006509, AF006077, AF98742, AF134726, AF132796, AF049766, AF005519, AF000360, AF006277, AF005015, AF006071, AF009181, AF005901, AF7924, AF98883, AF000086, AF000496, AF1384, AF133243, AF022323, AF078634, AF002314, AF18000, AF62293, AF004253, AF004887, AF022326, AF002400, AF0006273, AF000658, AF049576, AF0131003, AF000008, AF000114, AF000046, AF005291, AF004838, AF000026, AF121603, AF006312, AF146191, AF050321, AF000152, AF005031, AF000555, AF190465, AF004765, AF006064, AF050307, AF000356, AF006530, AF006952, AF049650, AF93241, AF196949, AF005179, AF121658, AF18399, AF002059, AF002563, AF006230, AF006372, AF0131685, AF004106, AF002553, AF003982, |  |  |  |  |
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| HCWEB56 | 1037 | 527051 | 1 - 534 | 15 - 548 | AC007136, AL121748, and AL031279.   |
| HCWEB71 | 1038 | 573147 | 1 - 423 | 15 - 437 | AW362435.   |
| HCWEB11 | 1039 | 948689 | 1 - 429 | 15 - 443 | AA724231, AW021007, AA728496, AL624379, AL19676, AA565911, AA837771, W63553, AL041613, AA569734, T03928, AW242279, T00210, AA507234, AL624234, AA804815, AL119563, AA740736, AA493784, AH59866, AL018726, AA507990, AA557945, F29948, AC010202, AL049553, AL031279, AC004104, AL034553, AL117694, AC007011, AL109627, AL096712, Z95152, AC006312, AL031283, Z93241, AC005243, AL031674, Z82215, AL096775, U24498, L39891, AL035681, AL035405, AL035683, AC005256, AC006146, Z85996, Z82179, AC005747, AC003950, AL031846, AC005821, AL115783, AC008041, AL079342, AC002430, AC003627, AC005519, AF196969, AC001644, AL021937, AC007510, AC004816, AC005358, AC002316, Z99774, U91323, AC007384, AC000025, AF139813, AC005089, AC002375, AC002978, AL049759, AL023807, AC035249, AC004228, Z95115, AF196971, AC004084, AC005696, AL034384, AC002395, Z82194, AC005632, Z83844, AP000355, AC002073, AP000359, AC005529, AC005919, AC005624, AC005600, AC004491, AL009181, AC006343, AC010205, AL031848, AC004961, AC005578, AC004953, D88268, AF001552, AL034429, AC002094, AC004552, AL049743, AC004889, Z97056, AC005940, AC008119, AL031666, Z82182, AL078463, AL050318, AC005156, AL021940, AC004687, AR036572, U91328, Z84484, AC005565, AC005244, AC005793, AC004125, AC007057, AL049872, U52112, AF109907, AC004799, AP000346, AL022721, AF035397, AF003627, AC005509, AC006441, AL031228, AC005379, AC004025, AC005335, AC007537, AC003010, AL008583, AL109956, U82696, AC005332, AL031985, U12387, AC005841, U95740, U30518, AL031729, AF037338, U95743, AC004771, AL109657, AC012384, AC006316, AC009336, AP000501, AL133500, AP001063, AC004770, AC005538, Z85987, AC006486, and Z82190. |
| HCWEB13 | 1040 | 573413 | 1 - 450 | 15 - 464 | AA995856, AL672210, T99719, AW148336, AL791144, AW440956, AW439999, AA907133, T05187, AL000677, AL678727, AA5386390, AA767864, AA285156, H52303, AA018440, AL660071, AL270092, H91317, AA490072, AL798234, AC004876, AP000302, AL024498, AC005525, AL031280, AC003964, AP000046, AP000114, Z93241, AC005585, Z85997, AC007050, AF196970, AC000072, AF121781, AC006238, L77589, AC002302, AL050402, AC004623, AC005609, AF059321, AC007371, L13972, AC002563, AL022336, AL023878, AC005182, AP000501, AL034408, AC005067, AL050309, AC005358, AL035249, AC004703, AC006137, AF155238, AC007406, AC007955, AL133500, AC006270, AC005015, and AC004230.  |
| HCWEB02 | 1042 | 920544 | 1 - 254 | 15 - 268 |   |
| HCWEB03 | 1043 | 924743 | 1 - 536 | 15 - 550 | AA960780, and AC004542.   |
| HCWEB07 | 1044 | 953731 | 1 - 398 | 15 - 412 |   |

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| HCWEE22  | 1045 | 572960 | 1 - 338 | 15 - 352 |  |
| HCWEE74  | 1046 | 738264 | 1 - 305 | 15 - 319 |  |
| HCWEE76  | 1047 | 770169 | 1 - 277 | 15 - 291 |  |
| HCWEE83  | 1048 | 781302 | 1 - 213 | 15 - 227 |  |
| HCWEE56  | 1049 | 573570 | 1 - 449 | 15 - 463 |  |
| HCWEE91  | 1050 | 849919 | 1 - 281 | 15 - 295 |  |
| HCWEE92  | 1051 | 573568 | 1 - 350 | 15 - 364 |  |
| HCWEE95  | 1052 | 526766 | 1 - 422 | 15 - 436 |  |
| HCWEG09  | 1053 | 523251 | 1 - 329 | 15 - 343 |  |
| HCWEG23  | 1054 | 531421 | 1 - 395 | 15 - 409 |  |
| HCWEG31  | 1055 | 693687 | 1 - 400 | 15 - 414 |  |
| HCWEG37  | 1056 | 574191 | 1 - 355 | 15 - 369 |  |
| HCWEG51  | 1057 | 964642 | 1 - 290 | 15 - 304 |  |
| HCWEG69  | 1058 | 948693 | 1 - 234 | 15 - 248 |  |
| HCWEG70  | 1059 | 881254 | 1 - 431 | 15 - 445 |  |
| HCWEG86  | 1060 | 572980 | 1 - 357 | 15 - 371 |  |
| HCWEEH27   | 1061 | 527050 | 1 - 391 | 15 - 405 |  |
| HCWEEH53   | 1062 | 967056 | 1 - 429 | 15 - 443 |  |
| HCWEEH76   | 1063 | 574187 | 1 - 319 | 15 - 333 |  |
| HCWEEH93   | 1064 | 931466 | 1 - 314 | 15 - 328 |  |
| HCWEEH94   | 1065 | 667919 | 1 - 744 | 15 - 758 |  |
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| A1733856, AW069227, A4410788, AW340905, A1625604, AW021917, AW068596, AA916430, A1687343, AA574442, AA847704, AW328331, A1890324, AA643770, A1963720, AA833875, AA833896, AW237905, AW117740, A1669589, AW084445, AA610509, A1634187, AA6669155, AL079734, AL046409, AA502991, A1679759, A1061313, A1753488, A1926728, AL079645, AA468505, AA535216, AW328000, A145681, AW023111, AA847499, AA579179, A1345675, A1284640, AW029515, AL040374, A1457313, A1817230, A1583142, AW438542, AL040054, A1040051, AW303196, A1590442, AA644090, AW021583, A1613280, AW069769, AA904211, AA702637, A1431303, AA602906, AW301350, A1345695, A1254779, A1732483, A282479, AA297145, AA630854, AW14011, AW193265, A2228778, AW419262, A1587583, A1587565, A135377, A1753113, AW327868, A1138455, AA224889, A1119691, AA6665330, A1270171, AA455483, AA127426, A1247101, A1037632, A1923050, A1566408, AW023672, A1613389, AA904275, A1679294, A1891080, A1138265, A1267356, A1559438, A1732865 |      |        |         |          |  |



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| AL281730, AI431513, AW327624, AI251576, AA053463, AI244127, AL042753, AI284543, AI610920, AA622801, AW265688, AA832016, AI168256, AW410844, AA832175, AI223626, AA526542, AA668455, AW270385, AI336054, AI250552, AA483606, AI361090, AL047349, T67090, AA402129, AI753672, AI267450, AI431517, AW004884, AI251034, AI890348, AA832145, AA527040, AW341903, AA526326, AI275982, AW407578, AA721645, AI0138842, AI791185, AA828047, AA650053, AI149478, AA526625, Z83844, AC006468, AC005484, AP001067, AC005488, AC007191, AP000331, AC020663, AC005527, AP000172, AP000057, AP000125, AC005529, AC004675, Z98946, AI21576, AP088219, AP000513, AL0409557, AL040795, U95740, AC005229, AP000688, AL022326, AC002369, AL031311, AC005701, AL022237, AC009248, AL080243, AC005696, AC002316, AC002126, AL117351, Z93930, AC005746, AL121653, AC004962, AC005519, AL023575, AC005837, AL022163, L14448, AC007308, AC007225, AC006312, AC003043, AC006057, AF053356, AL021368, AP000555, AC005722, AC004821, AC004644, AC005903, AC006479, AI133382, U91323, AC007666, AC005695, AC004477, AP000505, AC006138, Z95116, AC002463, AF207550, Z84487, Y14768, AC005829, Z97054, AC006274, AC000115, AC0009946, AL030996, AL049758, AC002277, Z97632, AL031730, AC003029, AC006111, AC006512, AL078612, AC009336, AC004476, AC005940, AC006530, AC004491, Z82203, U78027, AC004593, Z98051, AC005730, AC006965, AC007285, AC008115, AC005841, AL121603, AC006211, AP001068, AP000115, AL035422, AC005822, AC004832, L44140, AL031291, AC004084, AC005600, AC003104, AL035455, AC004778, AL022320, AL034420, AB017602, AC005060, AI011930, AL035071, AI139054, AF129756, AP000228, AC004030, AC005899, AC007546, AC005856, AI109801, AC007536, AC004841, AC005726, AL133289, AC007842, Z98742, AC004674, AC002991, AC005913, AF196779, AF015156, AP000140, Z84572, AC011504, AP000359, U95742, Z95114, AL135960, AI131016, AP000343, AC005755, Z86059, AC005089, AC004235, AC003101, AC019014, AC005844, AC008372, U07563, AC007686, AL034429, AC004967, L39891, AC005280, AC007216, Z97989, AI009610, AC005102, AL049757, AL096791, AC005209, AL008723, AC004849, AC005821, AC005088, AC005081, AF165147, AC005412, AL021367, AB003151, AC005071, AP000088, AC005368, AC005358, AF165926, AC005154, AC0005694, U62317, AC005771, AI13245, AC005619, AL050318, AL096701, AC004659, AC006050, AL096776, AC006208, AL022721, AP000692, AL023577, Z82188, AC003690, AL096757, AC002350, AC004061, AC005531, AD000813, AC004463, AC005776, AC004106, AC000052, AC004960, AC004985, AI010597, AL034449, AC004686, AL031846, L47234, AL031680, L11910, AC004663, M89651, AP000501, AC011604, AL136295, AL031432, AC004542, AL109758, AL035684, AL049588, U91326, Z98200, AC006064, AC003663, AF111168, AL022318, AC007312, AC008101, AL031848, AC007228, AL022328, AL033397, AC005300, AF015148, AC006139, AC004858, AC002544, Z97196, AC004019, AC005323, AL035405, AP000509, AL109628, Z93020, AC005037, and AC006071. |  |  |  |  |
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| HCWEI19 | 1066 | 948690 | 1 - 297 | 15 - 311 |   |
| HCWEI30 | 1067 | 666625 | 1 - 259 | 15 - 273 |   |
| HCWEI43 | 1068 | 573508 | 1 - 409 | 15 - 423 | AC004950.   |
| HCWEI45 | 1069 | 576852 | 1 - 110 | 15 - 124 |   |
| HCWEI78 | 1070 | 861918 | 1 - 338 | 15 - 352 |   |
| HCWEI80 | 1071 | 573534 | 1 - 207 | 15 - 221 |   |
| HCWEI83 | 1072 | 529351 | 1 - 287 | 15 - 301 | AP000556, and AP000557.   |
| HCWEI91 | 1073 | 529650 | 1 - 516 | 15 - 530 |   |
| HCWEI02 | 1074 | 920488 | 1 - 449 | 15 - 463 |   |
| HCWEI08 | 1075 | 950734 | 1 - 424 | 15 - 438 |   |
| HCWEI22 | 1076 | 954137 | 1 - 490 | 15 - 504 |   |
| HCWEI26 | 1077 | 576717 | 1 - 377 | 15 - 391 | AA065131, AW008791, AW009265, AI805884, and AA065200.           |
| HCWEI43 | 1078 | 573526 | 1 - 319 | 15 - 333 |   |
| HCWEI69 | 1079 | 757674 | 1 - 244 | 15 - 258 | AI479011, and AI538122.   |
| HCWEI91 | 1080 | 572857 | 1 - 434 | 15 - 448 |   |
| HCWEK59 | 1081 | 855734 | 1 - 331 | 15 - 345 |   |
| HCWEK74 | 1082 | 573134 | 1 - 542 | 15 - 556 |   |
| HCWEK80 | 1083 | 574157 | 1 - 442 | 15 - 456 | AA601043, AA069366, AC007685, AC007284, AC004491, and AC007510. |
| HCWEK84 | 1084 | 572843 | 1 - 241 | 15 - 255 | AP001052, and AP001053.   |

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|         |      |        |         | AL023281, AC005250, AC007842, Z98050, Z99716, Y18000, AL031670, AP000245, AB020870, AC008082, AL132985, D87675, AF109907, AC006211, AC004620, AC004911, AL031391, AC003977, AC002395, AC002187, AC005066, AL133312, AL022722, AP000253, AC005039, AC006070, AP000959, Z95116, AC005529, AC009599, AL031985, AL031289, Z82194, AC004855, AC006441, AP000553, AL080317, AC004216, AL035086, AC004526, AC003950, AL031283, AF020503, AC007253, AC004548, AC006116, AC005048, AF003626, AC004655, AC004595, Z97352, AC003664, AC007536, AC009411, AP000213, AC005730, AP000135, AP000155, U91325, AC004812, AL049647, U52112, Z83840, AC000004, AC004875, AC006322, AL109807, AC005324, AC004887, AP000031, AC002299, AC005874, AF134471, AC004985, AL009181, AC005037, AC004817, AL096794, AL049832, AC005500, AL049649, AC002528, AC004741, AL031286, AL031056, AL121603, AC006112, AC007406, AC004517, AC007688, AL049760, AF196972, AC005288, AF196779, AL035530, AL035467, AC012384, Z95152, AC002377, AL078583, AC004929, AC004033, AC005702, AC003389, AC003108, AL121653, AC007559, U82668, Z85996, AC005543, AC005578, AC010209, AC006930, AC006559, AC002563, AL031589, AC002041, AC004856, AC004815, AF088219, Z98946, AL034402, AC004455, AC008126, Z85987, AP000547, Z83844, AL034379, Z93016, AL021368, AL122023, AC003687, AF001549, AC005777, AL035398, AC006285, AC005234, AL035400, Z86061, AF205588, AP000036, AL079342, AC004858, AL078638, AC006313, AC006132, AL109801, AC004699, AL021978, AC006958, AC004622, AC000105, AF051976, AC002115, AL031259, Z84480, AL022326, AC002464, AC004087, AL034343, AC003682, AC007227, AL022323, AC000119, AC008039, AC004032, AL049856, AC005295, AP000244, AC008273, AC005043, AC000111, AC005412, AP000459, AL109613, AC003684, and AL022315. |
| HCWEK89 | 1085 | 861914 | 1 - 245 | 15 - 259  |
| HCWEL01 | 1086 | 916972 | 1 - 236 | 15 - 250  |
| HCWEL08 | 1087 | 881309 | 1 - 142 | 15 - 156  |
| HCWEL18 | 1088 | 827387 | 1 - 265 | 15 - 279  |
| HCWEL27 | 1089 | 572846 | 1 - 244 | 15 - 258  |
| HCWEL47 | 1090 | 523304 | 1 - 545 | 15 - 559  |
| HCWEL52 | 1091 | 577417 | 1 - 449 | 15 - 463  |
| HCWEL55 | 1092 | 572951 | 1 - 310 | 15 - 324  |
| HCWEL96 | 1093 | 520223 | 1 - 328 | 15 - 342  |
| HCWEM10 | 1094 | 968044 | 1 - 312 | 15 - 326  |
| HCWEM37 | 1095 | 573151 | 1 - 404 | 15 - 418  |
| HCWEM51 | 1096 | 920887 | 1 - 378 | 15 - 392  |
| HCWEN20 | 1097 | 520237 | 1 - 330 | 15 - 344  |
| HCWEN86 | 1098 | 573527 | 1 - 344 | 15 - 358  |

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|---|------|--------|---------|----------|----------|
| HCWEP18   | 1099 | 913670 | 1 - 401 | 15 - 415 | AW291681 |
| HCWEP34   | 1100 | 523238 | 1 - 436 | 15 - 450 |          |
| HCWEP39   | 1101 | 660232 | 1 - 459 | 15 - 473 |          |
| HCWEP40   | 1102 | 306759 | 1 - 278 | 15 - 292 |          |
| HCWEP43   | 1103 | 921346 | 1 - 412 | 15 - 426 |          |
| HCWEP001  | 1104 | 861910 | 1 - 288 | 15 - 302 |          |
| HCWEP014  | 1105 | 908245 | 1 - 355 | 15 - 369 |          |
| HCWEPQ15  | 1106 | 660520 | 1 - 285 | 15 - 299 |          |
| F00112, K00650, AF111167, AC006064, AC007055, AC006312, AC004777, AC004477, AP000023, AC005331, AL078472, AC004814, AC002347, AC007064, Z98048, AL034417, AL024507, AL024498, AC006548, AC004050, AC004934, AC005182, AC002548, AC002420, AC007790, AC006381, Z83840, AC005071, AF047825, AC005822, AC012627, Z82201, AC005944, AC005914, AL031005, Z84484, AL096791, AL031295, and AC006511.   |      |        |         |          |          |
| R16298, AA488261, R15246, AA325932, F08114, W46162, H08289, U69190, R12912, and AC002985.   |      |        |         |          |          |
| AA583955, AA526342, AA810078, AA219115, AA714453, AL872020, AA661921, AA610491, AA775207, AA503600, R40056, F04987, AL243584, AA316905, A1963720, AA677817, AW080134, AA782304, F18423, AA491284, AA601492, AA362698, A1696962, A1501060, AA531079, A1251436, A1061334, AW070892, AA847499, AA491814, AA664909, AA581903, AA478355, AA259186, A1686267, AA808877, A1035766, AW270343, A1119691, A134844, AA501821, AA515231, AA828042, AA525834, R04721, AA468131, F18638, AA737150, A1247264, A1476312, F01314, AA364224, AA502720, AA634889, A1307608, AA533303, AW084252, AA715355, AW084198, T41259, AW196064, A1889923, AW276817, AA644551, AW265385, AW075511, AA935988, A1589230, A1821271, A1358343, AW265009, AA522642, AA372852, F23430, A1364809, A1038072, F19012, A1049634, A1247199, AW082492, AA623002, A1283911, AA320714, T74382, AA362348, AA653375, AA521323, AA834727, AA805815, AA521399, A1284640, AA343705, AW300625, AA362511, AA635067, A1623720, AW715255, AA715267, AA650376, AA078441, AW248819, AA934680, AA848134, AA749054, AA459749, A1635818, AA508034, AA502104, A1358431, AA662871, AA515549, A1708009, AA503154, AA604333, AA603185, F16127, F00440, AW089682, F17802, AA773902, AA604897, AA281461, A1702314, AA720746, AA320113, A1160117, A1064952, T07019, AW002350, A1270002, A1754336, AA678436, AW071163, AW023990, A1044940, AA493708, A1783494, AA532524, AA338486, AA773733, AA531186, AA513141, A1537944, AA559290, AA531372, AA493206, F00135, AA713626, AA502866, AA346458, AA503284, A1298710, A1245679, AA985455, TS2733, AA478297, A1254316, AW274349, A1561255, A1709511, AA847012, A1469624, AA503119, AA664332, F16274, T06828, AW405114, A1860020, AA029992, AA513725, AA482711, A1246119, A1459768, A1151761, Z30073, H913893, A1110688, AW327868, AA394271, AA688036, H06039, AA074130, A1583283, F17555, AW150524, N62433, AA372481, AW075948, AA502963, AA514834, A1358236, A1355206, A1679045, A1859251, AA491802, N35602, AA594145, H63262, AA908468, A1890348, A1045053, AP001172, A1022322. |      |        |         |          |          |

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|  |  |  | AC006930, AC005520, AL022721, AL109617, AL033521, AC004686, AL021807, AP000502, AC007421, AC004544, AC008372, AC004638, AC005011, AF015155, AC005908, AC008126, U57007, Z99716, AC005694, AC008039, AC005484, AC008101, AP000555, AC006479, AL021407, AC005632, AC004263, AL031846, AF134726, AC005527, AC000004, AL049047, AP000513, AC004913, L82672, AC007685, AC006037, AF001549, AP000556, U91326, AC004876, AF038458, AL023575, AC005234, AE000658, AL034551, AC009044, AC007999, AF207550, AC005288, AC004894, AC005387, AC004675, Z49237, AC005081, AL049709, U85195, AC008079, AL109984, AC009330, AC002369, AC006539, AC005944, AC005191, AD000992, AF088219, AC005019, AF15027, AL049776, AL022323, AL132992, AC005529, AC002289, AC003957, AC004000, AP000553, AL031311, AL035587, AL008629, L78810, AC004030, AB023052, AL023581, AF064863, AP000692, AC003007, AL022476, AL132987, AL003147, AC006538, AC004862, Z62833, AC004884, AC005037, AC007324, AC009233, AC002429, Z97352, AC006537, U91323, AC005046, AC006213, AL031005, AC004253, AC005768, AC002368, AP000350, AL049795, AF042090, AC006026, AC005280, AC005180, AC005839, AC004612, U95742, AC005544, AP000950, AP000265, AL023494, Z82198, AL109865, AL096774, AF109907, AL049696, AC007388, AC005488, AL117258, AC002094, AC005553, AL031685, AC002349, AC002300, AC005071, AL022724, AF196969, AC006511, Z82901, AC007879, AL021939, AC006285, AL020995, AP000432, AC006057, AP000568, Z98044, AC004491, AC004765, AC004673, AC002565, AP000349, AL033531, AP000034, AP000101, AL050332, AL021395, AC006064, AL133711, AC007243, AC005368, AL121934, AC004659, AL021154, AC006458, Z86061, AC002072, AC004841, AC006132, AL121655, AL031280, AC004593, AL121603, AC004028, AL031123, AC004098, AC005082, AC009464, AC004678, AC016025, AC003081, AC004895, AC004057, AC005779, AL035683, AL035423, AC005829, AC005369, AC005043, AC008044, X54177, AC005411, AC016026, AC004672, AL117352, AC008080, Z93023, AC005523, AP000025, U95740, AC003109, AL031577, Z74617, AC004002, AC006547, AC005335, AC002470, AL031255, AC004855, AL050341, AL121593, AC018633, AC005821, AC005535, AC002996, AC005193, AC004922, AC006312, AF196779, AC000097, AC002563, AC006138, AC005740, AF049895, AC004831, AL121820, AL031767, AC004797, AC004234, AL132777, AC005341, AC004216, AL049633, AC002549, AL034548, AL023553, AC005785, AC004668, AC009263, AC007450, AC007320, AC004134, AC005703, AC012380, AC007367, AC006571, AC007363, AC007387, AC005792, and AC004033. |  |
|  |  |  | Z85996.  |  |
|  |  |  | T83652, N52834, AA010013, H52946, H64159, and AA703454.  |  |

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|---------|------|--------|---------|----------|---|
| HCWER81 | 1113 | 574167 | 1 - 454 | 15 - 468 | M78967, and AL031733.   |
| HCWES03 | 1114 | 921933 | 1 - 540 | 15 - 554 | D87470.   |
| HCWES06 | 1115 | 935862 | 1 - 135 | 15 - 149 |   |
| HCWEW45 | 1116 | 571355 | 1 - 193 | 15 - 207 |   |
| HCWEW76 | 1117 | 861966 | 1 - 358 | 15 - 372 | AL862242.   |
|         |      |        |         |          | AA420421, AA420839, AW340887, T68865, AA4706567, AA838190, AA363078, AA533315, AA484373, AA161177, AA161132, AA780541, AA338170, R54486, AL567402, CL6659, AA356567, AA745507, AA487198, AA372887, T70121, A1914883, N74208, AL568683, AA934825, AW050400, AW328172, AW082559, A1758256, AA581099, AA646863, T52935, AA604048, F12561, AA365815, AA501614, A1291317, AW270784, A1524360, AA837560, AW328050, H67805, AW328171, T47324, AW440837, A0071173, AA600741, AW083678, AA586866, AA320748, F01979, AW269488, A1053445, F28108, A1002744, AW081610, F08248, T63635, AA229121, AA744172, C15363, AA577732, A1827234, A0071132, AA744278, AL050332, AC005274, AC006101, AP000688, A121782, AC000080, Z84469, AL021917, AP000044, AB003151, AP000691, AC006040, AC008282, AP000330, AP0000295, AP000112, AC006572, AC006946, Z82899, AC001231, AC009405, AC005663, AF001552, AC005822, AP000171, AP000056, AC002300, U85195, D42052, AC004491, AC002425, Z84466, AE000658, AC005913, AC005253, AC001643, AC005387, AP000124, AL109653, AF109907, AC008981, AC006021, AC002565, AC002461, AC007350, AC006139, AC006486, Z98950, AC005393, AC006568, AF064861, AL133241, AC006305, AC005081, L31675, AL050338, AL0966705, AL049569, AL035652, D26141, AC005358, Z81364, Z97196, AL034411, AC004132, AL009179, AL090331, AC002326, AC004993, AL135746, AC004617, AL135744, AC006006, AC007786, AC007766, AP000939, AC004197, AC005944, AC006557, U89387, AC005015, AL031846, AC007096, AC002098, U71148, AC003678, AL008636, AC002483, AL035460, AC003689, AL035690, AC004953, AC006146, AF207550, AC004472, AC005902, AF064857, AC004878, AC004448, AC003101, Z84480, Z96074, AC005839, AC005660, AL031589, AL096769, AP000953, AP000160, AP000128, AP000206, AC002066, AP000245, Z83820, AL008718, A1133269, AC007298, Z68226, AC005512, AL096791, AC002110, AC004531, AB023048, AC005945, AP000511, AL035588, AC005011, AL035089, AP000687, K03021, AC010077, AL022476, AC002379, AP000126, AP000204, Z84487, AC005684, AC004859, AL132712, AC005412, AB017568, Z83840, AP000244, Z97832, AC005632, AC002347, AC006132, AP001551, Z93930, AL008730, AC005754, AC005484, AL021937, AL139054, AC005406, U50871, AC008545, AC004601, AC005089, AL021997, AC004151, AB020864, AL109627, AC006966, AC005548, Z95152, AC005082, AC006254, AC004383, AC005049, AL034429, AL050401, AP000884, U95742, AL031733, X90725, Z80897, AC003110, AL008719, J03071, AC006252, AC002550, AC005868, AP000152, AP000010, AL034423, AC006253, AC008062, AC009743, AC007262, AL022165, AC003081, AF047825, M63796, AC006023, AC006013, Z95113, AC007151, AC005486, AC004596, AL031681, AL031668, AC010206, Z69890, |

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|   |      |        |          | AL007216, AC005562, Z97181, AP000345, AP000257, AL0096701, AC003071, Z95114, AL032821, AC007774, AL021807, and AL021546. |
| HCWEW77   | 1118 | 664922 | 1 - 416  | AL020995.  |
| HCWEX05   | 1119 | 928121 | 15 - 340 | N87989.  |
| HCWEX40   | 1120 | 574940 | 1 - 251  |  |
| HCWEX59   | 1121 | 709560 | 15 - 358 |  |
| T56067, AA657057, AW248803, AA664148, AW249224, AA369477, AL138242, AA569187, AA584581, AA125788, AA828704, AL079667, AA834755, AA594725, AL168185, AW193500, AL179136, AA443390, F07193, AA516527, AL133723, AA365347, AA012897, H00934, F37169, T62975, AA503947, AA515346, AW406162, AA650271, AL189781, AL048558, AA502103, AA906889, N53150, AA904140, AA515435, AL078392, AA811388, AA364315, AA483223, AL1801591, X06123, AC002350, X61109, AC007193, Z83845, AC005913, AP000967, AL022329, AF200465, AC006285, AC005215, AC005365, AC005537, L81693, Z83826, U78027, AC005071, AC007666, AC003035, Z82188, AC004973, AC006965, AC006006, AL035422, AL035695, AC005385, AC005962, AC006312, AC005365, AC005003, AC005324, AC006600, AC000052, AL034420, AF165926, AC005736, AF109907, AP000362, AP000553, AP000010, AP000152, AL132712, AP000555, AC004019, AC002472, AC000159, AL121603, AC007565, AP000348, AC006571, AB016897, AP000354, AC003038, AC005755, AL035690, AC002077, L48038, AC004263, AC000353, AL080317, AL031589, AL008582, AR036572, U91328, AB023049, AC002483, AP006501, AL13396, AL022721, Z99716, AL035494, X03272, AL022476, AC004797, AL049776, AL022323, AF196779, AP000692, AL035089, AC004909, AC005740, AC002312, AC006211, AL021453, Z98200, AL031447, AC005822, Z97184, Z73360, AC002349, AC002301, AL139054, AL009178, AC007115, AL035460, AL035417, AL035681, U62293, AC004813, Z82244, AL023553, AL050332, AC004865, AL080243, AC000039, AL022328, Z98946, AC007999, AF134726, AC020663, AL009179, AC007664, AL022313, AC002448, Z69705, AL109963, AF019413, AC006130, J003147, AL049780, AC006039, AC005043, AL031257, AC005211, AC005057, AL135744, AC005200, Y07848, AC005516, AC006538, AC006530, AP000162, AP000020, AP000087, AC005670, AL021366, AC005783, AC005911, AL023879, AC005212, AC004622, Z69651, AC007308, AC009516, AF111168, AC004754, AC005235, AC005304, AL035072, AC005527, AL050338, AC003085, AC005730, AC007842, Z83822, AC005281, AC007285, Z98948, AC007182, AC005081, AL133245, AL023807, AC008079, AL031685, AL050318, AL031446, AC004099, AC005041, AC005940, AL031668, AC005776, AP000557, Z97056, AC006441, AP000512, AL096829, AC002070, AP000030, AP000151, AP000226, AC005754, AC009026, AL022311, AC002402, AC0016025, AC005544, AC007543, AF121781, AC007011, AC005274, AL008715, AC004890, AF091512, Z86090, AL031666, AL005692, AL008718, AC007537, AC007324, AC012384, AC006515, AL035659, AP000047, AC005829, L76568, Z98742, AC006057, Z85986, Z83844, AC005969, AL132777, AC002470, AP000173, AP000500, AL034548, AP000502, AC004463, AC018633, AC006946, |      |        |          |  |

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|         |      |        |         |          | Z73359, AL049856, AC002059, AC004856, AC005069, AP000359, AC004638, AC004858, AC002067, AL049757, and AC004033.   |
|         |      |        |         | 15 - 337 |   |
| HCWEY66 | 1122 | 731772 | 1 - 323 | 15 - 426 |   |
| HCWEY07 | 1123 | 953701 | 1 - 412 | 15 - 432 |   |
| HCWEY33 | 1124 | 702597 | 1 - 418 | 15 - 247 |   |
| HCWEY34 | 1125 | 954142 | 1 - 233 | 15 - 472 |   |
| HCWEY84 | 1126 | 952692 | 1 - 438 |          |   |
|         |      |        |         |          | AA598892, AA508036, AA525293, AA984829, AI018419, AA126277, AA172365, R22248, AI272052, AA360260, T94592, AL096701, AF196969, AF196779, AL031597, AL034417, AD000092, AL049757, AC006449, AF030453, AC002312, AC005088, AC002395, AC004150, AF005089, AC004216, AL031053, AF053356, AC006487, Z98051, AC005049, Z83851, AF109907, AP000555, AC006480, AL021578, AC006211, AC005081, AL031311, AC004382, AC006312, AC007308, AC005005, AL023553, AL049829, AL049631, AL121652, AL109801, Z95114, U85195, Z83826, AC007450, AC000134, AC004858, AC004841, AE000658, AL021920, AC005920, AC005067, AC007226, AC005702, AF111168, AC002546, AC002477, AL117344, AC004134, AC005184, AF001549, AC000070, D87675, AP000553, AC005632, AC006511, AC004019, AL133243, AL050321, AL121769, AC004797, AC005778, AC007999, AC005808, AI229041, AC007193, AL023653, U95742, Z82203, AC007371, AC006111, AC000353, AL035422, AL009181, AC006360, AC005839, AC005480, Z95152, Z94056, AC005399, AL021394, UP000512, AC005015, AF017104, AL020997, AL121578, AF003626, Z86090, AC005914, U78027, AL050341, AC005609, and AL022238.   |
|         |      |        |         | 15 - 335 |   |
| HCWEY88 | 1127 | 785508 | 1 - 321 |          | H44471, AI246061, AA161305, AA224525, AA555143, AA664248, AW270429, AI800535, AW270351, AI223626, AA135868, AW019964, AI054090, AI278972, AA365911, F32248, AI284543, AI254770, AI251944, H09639, AI251034, AI251203, AI251284, AI250552, AI251241, AI249853, AW265149, W32993, AW151870, AW058430, AI053934, W63553, AI053597, AA862312, T03928, AA487209, AW303098, C15504, AA340153, C14796, AA832152, H47368, C14627, Z95116, AC001026, AC005913, AF118808, AC005844, AC004662, AC006360, AC006313, AC004465, AL034400, AC004815, AC002365, AC004984, AL034549, AC007676, Z95118, AC008009, AL009181, AC005565, AC002465, AC005841, AC006388, AL031665, AL033397, AC007276, AC007028, AC008041, AC005746, AC002312, AF196969, AC004799, AL135746, Z97630, AL050318, AC005291, AC005288, AC005207, AC002369, Z94801, AC006121, AC002425, AF129756, AC003959, D88270, AL022162, Z94056, AC005237, AC005519, AC006352, AC002041, AL049745, AC005856, AC005041, AC005666, AC006130, AC005632, AL096701, AC004963, AC005015, AC005488, Z93017, AC009946, AC006359, AC005740, AC006241, AC004813, AC007263, AP000555, AL034418, AL117354, AC002287, AC005736, AC008044, L29766, AL080242, Z83843, AL035683, AL021878, AC005696, AL049539, AL121825, AC004150, AC004941, AC004895, AL023284, AC004185, AF000475, AC004686, AL031651, AC004033, AI011930, Z98950, AL035405, AL021807, AC004386. |



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|---------|------|--------|---------|----------|---|
| HCWFA14 | 1128 | 925301 | 1 - 479 | 15 - 493 | AC002456, AL022324, Z81364, U95740, AC001962, AL022323, AC005049, AC004804, U91323, AC007671, AC005251, Z98742, AL139054, AC005476, AL035423, AC006487, AP000502, AC003957, Z95331, AL022334, AC005776, AL049869, AC002477, AC007066, AL078381, AC007114, AF222685, AL031848, AL021937, U48697, AC005412, AC006333, AF134726, AF050154, AC004152, AL078634, AL022313, AC006441, AF130248, AL050308, AC000082, AL031311, AF107885, AP000045, AP000113, AP000509, AC004856, AL031666, AC005401, D87675, AP000512, AF196972, AL049834, AC006057, AC004148, AC008018, AF031078, Z82097, AC007537, AL008635, AC002544, AC007092, Z93023, Z84481, AC005157, AC004997, AC005274, AF030876, AC007666, AC004797, AL109939, D86992, AC006552, AP000300, U96629, AL022393, AC002449, AC004409, U78027, U62293, AP000065, AC007707, Z97987, AC007899, AC004912, AC005585, AL031320, Z85987, AC003086, AC005200, AL133163, AC006026, AC004876, D86995, AF001552, AL031432, AC006950, AL035422, Z98749, AC005089, and AC006392. |
| HCWFA65 | 1129 | 573193 | 1 - 236 | 15 - 250 | T61555  |
| HCWFA88 | 1130 | 578943 | 1 - 365 | 15 - 379 | AP000126, AP000204, and AP000244  |
| HCWFA89 | 1131 | 574370 | 1 - 257 | 15 - 271 | AC002039, AC002045, U91326, AC002544, and AF001549.   |
| HCWFC05 | 1132 | 932194 | 1 - 360 | 15 - 374 | AC007283, and AC008179.   |
| HCWFC17 | 1133 | 573186 | 1 - 367 | 15 - 381 | Z98744  |
| HCWFC65 | 1134 | 883787 | 1 - 340 | 15 - 354 |   |
| HCWFD07 | 1135 | 953700 | 1 - 571 | 15 - 585 |   |
| HCWFD19 | 1136 | 574915 | 1 - 267 | 15 - 281 |   |
| HCWFD29 | 1137 | 573381 | 1 - 210 | 15 - 224 |   |
| HCWFD47 | 1138 | 671946 | 1 - 300 | 15 - 314 | AL799197.   |
| HCWFD64 | 1139 | 954575 | 1 - 363 | 15 - 377 | T81407, AC000692, and AF064861.   |
| HCWFE06 | 1140 | 935856 | 1 - 379 | 15 - 393 | AA663467, and AA663457.   |
| HCWFE18 | 1141 | 573445 | 1 - 99  | 15 - 113 |   |
| HCWFF41 | 1142 | 840978 | 1 - 135 | 15 - 149 |   |
| HCWFF68 | 1143 | 506577 | 1 - 304 | 15 - 318 |   |
| HCWFF65 | 1144 | 578936 | 1 - 386 | 15 - 400 |   |
| HCWFF72 | 1145 | 856908 | 1 - 625 | 15 - 639 | AA594971.   |
| HCWFK16 | 1146 | 849988 | 1 - 187 | 15 - 201 |   |
| HCWFK20 | 1147 | 575696 | 1 - 225 | 15 - 239 |   |
| HCWFK35 | 1148 | 916795 | 1 - 540 | 15 - 554 | AA491175, and AC003957.   |
| HCWFK57 | 1149 | 861907 | 1 - 314 | 15 - 328 |   |
| HCWFK73 | 1150 | 761655 | 1 - 304 | 15 - 318 | AA093114, AA523695, AA487726, AL364568, T62078, AL869786, H95822, AL686470, H81700,   |

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|  |  |  |          | AA214042, AA297006, AA021561, AA056250, H69992, F34939, C16358, H45698, T94394, AA582746, AL697242, AA225004, AL371722, A1003444, AW264391, A1866580, AL697239, W81372, AL697235, AA358366, AL355246, AA364800, H64715, H683379, AA66587, A1973173, AA828476, AW019964, H29241, A1279417, AW419189, A1367551, N25079, AA243976, H29914, AA568314, AA378489, AL031591, U47924, AC004841, AL008730, AC005015, A1010770, AC003037, AC001228, AL133243, AC005839, AC004999, AC005726, AC005694, AC002470, AC006449, AC005520, AL049872, AC005736, Z84466, AL009181, AL049795, AC005480, L44140, AC007263, Z97055, Z98950, AP000692, AF152365, AC006360, AC003663, Z73359, AC002544, AC007308, AF196779, AC006241, AL132987, AL031848, AL049874, AC005519, AC004832, Z86090, AC005399, AC006045, AC007066, AC005088, AC005412, AC004476, AC002302, AC004033, AC005529, AC004765, AC005486, AL096701, AL032821, AC005684, AC004232, AC004921, AL139054, Z98036, AP000354, Z026898, AC004816, AC007637, AP000300, AL096791, U80017, AP000010, AP000045, AL031295, AC000079, AC009784, AL109827, AL080243, AC004522, Y10196, AL035420, Z99716, AC007057, AC005071, AL133448, AC004783, AC002432, Z84469, AC002395, AC004216, Z97632, AL133246, AC004770, AC006020, AC003086, Z83844, AC007179, AL031864, AC002073, AL031589, AC004019, AP000043, AP000111, AP000049, AC004518, AP000557, AC002563, AC005821, AC007390, AP000066, AP000113, AC006088, AC005102, AC004217, AC007363, AL121840, Z99127, AP000503, Z97053, AP000311, AC005488, AC005049, AC003029, AC004381, AP000553, X55448, AC004967, AC004659, AP000689, AC002996, AP000356, AC006111, AL024498, AF134726, AL022326, AF165926, AL008729, AL034549, AL121658, AL031667, AF111168, AC004687, Z98742, AC004813, AC005324, AC004223, AP000961, AC005899, AF196969, AC006487, AC006013, Z97181, AL022721, AF060568, AC006021, AC005089, AC005081, AC003108, AC005566, AC004797, AC006387, A1011930, AL035685, Z73417, AC005793, AC005280, AC012384, AF024533, AP000552, AL035681, AC003982, AL031659, AC007114, AC005386, AL035249, AL035683, AC004901, AC005971, AC003078, AC005562, AC008372, AC004099, AC005225, AC002351, AC004253, AL008707, AC000025, AC005740, AC000353, AC009599, AC006254, AC002492, AC005527, AL049694, AL034421, AC009516, U63630, AC005746, Z95152, L78833, AB023048, and AL031291. |
|  |  |  | 15 - 329 | L44321, AL096867, AL022154, AC007567, AL034402, and AC004853.  |
|  |  |  | 15 - 331 | AL031673.  |
|  |  |  | 15 - 200 | AA579235.  |
|  |  |  | 15 - 416 |  |
|  |  |  | 15 - 302 |  |
|  |  |  | 15 - 431 | Y13758.  |
|  |  |  | 15 - 304 | N21434, A1126969, AW069769, AA551548, AA640563, A1031759, AA664248, A1300507, A1183392, F31670, AA219166, AA837771, A1567676, AA648605, AA558402.  |

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| AA558716, W00479, A1521019, A1538404, A1884404, AA774169, T57096, AA846046, AW271071, AA225630, AA657808, A1251024, AW407679, A1872229, AA715508, R12600, A1281622, A1803824, A1241851, A1267356, A1926093, AW023975, AA364082, A1754257, A1801479, AA984891, T41134, AW243817, R33053, A1961232, AW085811, AA349923, AA602939, A1520984, AA987703, AW268793, AW439224, A1267450, A1065031, A19021744, A1745666, A10018923, A1032411, AA364147, F35684, A1732911, A1185394, AA507990, A1252776, AW406139, R95751, A1174827, A1668566, AA3309287, AA808842, A1469504, R33588, AA873661, AW157128, A1274691, H49749, AA633068, A1012829, H79323, A1092527, AA6040305, C14724, AW022796, A1601172, A1733523, A1038029, A1434103, A1828742, X84712, AA630122, A1708565, AA367920, AA338238, AW021674, A1188852, W02419, AA730530, A1707506, A1035587, AC005399, AF165926, Y18762, Z83845, AC005015, AC005089, AC004099, AC005730, A1133163, A1049591, AC005837, AC005828, U02057, AC006544, AL080317, AC005531, AC000039, A1020997, A1035445, AF196972, AF030876, AC007371, AC007051, AC007919, D42052, AC004053, AB023051, AP000116, AP000505, AC005105, Z98946, AC005821, AC006543, AB033024, A1136295, AC006006, AC006581, AL050320, AP000512, AC007226, AC005069, A1031848, AC004678, AC004668, Z83844, U78027, U91336, AC002544, AC006538, Z69366, AC007878, A1035422, AC007462, AC002306, AL096761, AC020663, AC005694, A1246003, AP000513, AC006953, A117258, AD000092, AL078477, AF207530, AL109798, M89651, AB023049, AC007536, A1049636, AC003042, AC008372, AC005993, A1022336, AC006599, AC007687, A1216588, A1031721, A1049829, AC006062, A1008735, A1035086, AC000134, A1034548, AC006188, M81890, AC005527, A1251973, AC002369, AC006511, AC009516, U26425, AC004234, AF111168, A1031575, Z97630, Z98884, AC007899, A1031311, AC006121, Z98200, A1132712, AC005037, AB023048, AC005519, AC007277, AP000511, Z84480, AC007314, Z81369, U63721, AC004592, AC004073, AC007934, AF031077, A1734726, A1135783, A1035450, A1031295, A1079295, AC008044, AC006241, AC004257, AF149769, A1096699, A1049759, AC006088, Z95114, A1021707, A1023801, AF031078, AC005565, AC005952, A1035413, A1035652, AC016027, AC007227, A1034421, U91322, AC009248, A1008731, AC002492, AC005747, A1034553, A1031680, AC005759, A1096628, AC006211, A1031657, AC005529, AC004381, A121934, Z73979, AC005695, A1022318, AC005390, A1199847, AC006162, AC005207, AC004953, U07563, D16583, AC004460, AP000256, A1008718, A65971, AC005261, A1003147, AC006096, AC005365, A115744, AC005031, A1022333, AC002310, D16517, AC006261, AB000882, AC005280, U24498, A1031903, Z68756, A1022476, AC007688, AC009498, AC002364, Z95116, AC004019, AC004814, Z83840, AC002991, AC004884, AP000510, AC004797, AC004477, A1133448, AC005778, AF076450, AC004975, Z84469, Z98051, AC005682, A1035045, A1035455, AC000075, AC000084, AC004703, AC006369, AC004673, AC006449, U80017, AC004897, AC007773, AC004130, Z82182, A1008628, A1127020, AC005325, AC006064, |  |  |  |  |
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| HCWFM01 | 1158 | 916803 | 1 - 217 | 15 - 231 | AC008115, AC004883, AC002400, Z93017, AL122023, Z69713, L78833, AC002036, AP000098, AP000099, AC005911, AC005375, AC005755, AL031284, AC004148, AC007450, AC004997, AP000275, AC002994, AC016830, AC004686, AL109613, AC007016, AC005046, and AC005914.  |
| HCWFM11 | 1159 | 959457 | 1 - 365 | 15 - 379 | AA054176, AL166906, AA383798, R79698, AC003688, AP000096, AP000240, AL020997, AC006946, AC005070, AL096794, AL049849, AL079340, AL109914, AC019014, AL049646, AF111169, AC007073, AC005071, AL251973, AP000549, U82694, AF001549, AC005684, AC006953, AC004517, AC003065, AC005865, AC005033, AC005389, AL034406, Z98200, AC007842, AP000512, AC006544, Z82249, AL078583, AC005699, and AC010168.<br>AA640305, AA156183, AF754257, AA631915, AA720732, AW083707, T71936, T58395, AL869455, AA862243, R68249, AL129133, AA883595, AA747469, AL241761, AW021105, AW023167, AL207424, AA804726, AA936746, AL230815, W01344, AL744199, AL763234, AA324242, R76686, AA776899, AA664963, AL135357, AL044701, AA593537, AL984742, AL917132, AW072963, AL307563, AC002470, AC004841, AC002094, AC005399, AC007066, AC005207, AF111169, AC004820, AP000240, AC005049, AP000092, AP000096, AL135744, AC003684, AC008018, AC007263, AC005529, AC005300, AP000011, AF001548, AB003151, AL035423, AC006511, AC007312, AC004707, AL031670, Z93017, AC005088, AC007371, AC006241, AL031293, AL022721, AF111168, AC004167, AC005295, AC002369, AL049653, Z99127, AC004234, AC004859, AC005736, D00591, AC005251, AC003043, AL021397, AF129756, Z98884, Z93930, AC006509, AF165926, AP003322, AC002375, AL049839, AC006121, Z84480, AC005071, AC007774, AC007395, AC006601, AC005224, AC002377, AC004076, AC004922, AL033524, AC000159, AP000361, AC004129, AL132987, Z84469, Z82246, AF053356, AP000153, AC005231, D87008, AC004477, Z97056, AF196969, AL035458, AL133246, AC002351, AP000053, AP000121, AP000557, AC007277, U29895, D87012, AL022336, AL049538, D88268, AC004263, AC004583, AP000065, AP000280, AP000030, AC002477, AL034429, AC005253, AC006166, AP000215, N57678, Z98304, AC005370, AP000505, AE006558, AC005632, AC005070, AC005821, AL031311, AC004762, AC003982, AC005772, AC007308, AF176815, AP000107, AP000039, AC007993, AL109839, Z99943, Z73420, AC007228, AC002060, AL096791, AP000556, Z86661, AP000497, AL049557, AC008038, AP000958, AL031733, AL035420, AC005856, AF024533, AC006030, N63543, M63480, AC002400, AC006455, AC005519, AC007565, AC006607, AD000812, Y11107, AC007537, AC004805, AC005919, AC005940, Z69713, AC002301, U85195, AC006254, AF038458, AC004491, AL023096, AL078463, AC005755, AC004815, AL035249, AC007076, AP000694, Z93016, AL033521, M63544, AP000348, AC002563, AC005875, AC005726, AC006160, AL049776, AC009516, AP000038, AP000106, AL031284, AC004472, AC007064, AC004851, L81692, AC005023, Z92542, AC006376, AL035462, AP000228, AC005520, AL034419, AC004799, AL035587, AC002395, and AL031681. |

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| HCWFM16 | 1160 | 678627 | 1 - 368 | 15 - 382 | W07244, H81645, H87712, Z18338, A1627848, A1022476, AF128536, and AF128535.   |
| HCWFM26 | 1161 | 677348 | 1 - 356 | 15 - 370 | AL021918, AC003070, Z93017, A1022316, Z97876, AC008079, AC004228, AL109827, AP001054, Z81370, AC008018, and AC004678.   |
| HCWFM43 | 1162 | 715387 | 1 - 88  | 15 - 102 |   |
| HCWFM59 | 1163 | 757660 | 1 - 338 | 15 - 352 |   |
| HCWFM60 | 1164 | 740470 | 1 - 410 | 15 - 424 |   |
| HCWFM65 | 1165 | 849957 | 1 - 252 | 15 - 266 | AL149018, AC006512, Z85987, AL117338, AC005970, AC003982, AL031681, AL050318, D87675, AC005233, AC007226, and AC008072.   |
| HCWFM77 | 1166 | 706488 | 1 - 152 | 15 - 166 |   |
| HCWFM14 | 1167 | 680404 | 1 - 351 | 15 - 365 | AL134393.   |
| HCWFM22 | 1168 | 674750 | 1 - 381 | 15 - 395 |   |
| HCWFM37 | 1169 | 576547 | 1 - 255 | 15 - 269 |   |
| HCWFO01 | 1170 | 916814 | 1 - 357 | 15 - 371 | A1657485, N83963, N88177, N87188, N83707, AR018815, U19066, U48696, AF045432, AL243486, U48697, AF102850, X99060, AF001863, AF061744, X99056, X99052, Y10299, X99058, X99051, AF011573, and X99055.   |
| HCWFO02 | 1171 | 920416 | 1 - 372 | 15 - 386 |   |
| HCWFO20 | 1172 | 577709 | 1 - 303 | 15 - 317 |   |
| HCWFO24 | 1173 | 664581 | 1 - 328 | 15 - 342 |   |
| HCWFO30 | 1174 | 692814 | 1 - 316 | 15 - 330 |   |
| HCWFO40 | 1175 | 913855 | 1 - 407 | 15 - 421 |   |
| HCWFO51 | 1176 | 725756 | 1 - 72  | 15 - 86  | AC002540.   |
| HCWFP21 | 1177 | 531288 | 1 - 442 | 15 - 456 |   |
| HCWFP27 | 1178 | 927700 | 1 - 287 | 15 - 301 |   |
| HCWFP47 | 1179 | 849893 | 1 - 398 | 15 - 412 |   |
| HCWFP71 | 1180 | 933211 | 1 - 341 | 15 - 355 | T65964, R01423, R01424, R05277, R44699, R51780, R44699, H11322, H13859, H13911, H21393, H22117, H45982, H98744, N37080, N62715, N93640, W60228, W76544, W87768, W90518, AA010775, AA011055, AA029083, AA029084, AA036822, AA057660, AA082814, AA101057, AA130702, AA132788, AA147813, AA151511, AA173298, AA187994, AA192370, AA243010, AA250948, AA521284, AA535404, AA594843, AA603875, AA627091, AA662313, AA721002, AA761271, AA826710, AA865743, AA975254, AA995525, C05796, AA206634, AA654116, AA283178, AA291958, AA291959, AA452464, AA628258, AA634632, AA447651, AA771717, AA812493, AA835367, AA846451, AA852494, AA003962, AA004339, AA094339, Z13658, Z41681, F03361, F03690, F09370, A1245866, A1251909, A1280679, A1202164, A1741915, A1524387, A1540076, A1479426, A1498061, A1566416, A1582492, A1127570, A1187378, A1191272, A1279638, and A1587165. |
| HCWFP81 | 1181 | 576363 | 1 - 306 | 15 - 320 |   |

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| HCWFR11 | 1182 | 967266 | 1 - 170 | 15 - 184 |  |
| HCWFR83 | 1183 | 721373 | 1 - 450 | 15 - 464 |  |
| HCWFS22 | 1184 | 971566 | 1 - 365 | 15 - 379 | A1830563, A1675015, A1634079, A1766110, A1924352, AA506986, A1419874, AA417050, A1582146, A1302226, A1653982, AA707615, AA947674, A1824293, AA417181, AA925338, A1367252, AA344961, A1418521, AA559136, A1253198, A1028337, AA35007, A1367250, A1081854, A1150460, T12625, A1873313, AA879191, A1087636, A1207096, A1087600, AA904762, and A1198471.   |
| HCWFS65 | 1185 | 572953 | 1 - 238 | 15 - 252 |  |
| HCWFT29 | 1186 | 690751 | 1 - 357 | 15 - 371 | AL041375, T52772, A1572680, A1725432, A1801563, AA493404, A1810158, A1238357, AA601376, AA355367, AA515924, AA595661, AA484892, A1084173, A1251024, F01666, A1089625, A155246, A1797998, AA526413, AA525807, AA019973, A128511, AA602971, A1927275, AA199582, N90244, AA559241, A1002950, AA604601, AA640305, A1760835, AA367672, AA503298, AA397355, A1043719, A1973173, AA013168, AA313025, A1270768, A1272815, A1609972, AA515905, A1238016, AA112187, A1246796, A1935827, AA714011, AA228778, A1345157, F01532, AA513122, A1029903, A1275719, A105463, A1048925, A1283938, A1238712, A1056177, A1419389, A1678468, AA420787, A1919493, AA657835, A179316, AA837646, T48723, AA904275, A1926909, A1803809, A1020088, AA610784, A1023390, A1923052, AA079421, AA225392, A1003041, A1049830, A1231433, A1004448, A1005740, A1009516, Z83838, A1002119, A1005940, A1005920, A1023281, A1005261, A1012627, A1005821, A1005899, Z94056, A1035587, A1031432, A1004859, A1004019, A1034423, L05367, A1008124, A1005037, A1022336, A1004895, A1003098, A1004019, A1005822, A1005529, A1000066, A1000556, Z99570, A10020663, A1004448, A1000116, A1000882, A10005387, A1109627, A1007666, A1031390, A1006254, A1004623, A1004448, A1002347, A1000503, A134726, A1031577, A1004686, A1049636, A1005486, A1004596, A1005971, A1022721, A1139054, A1002551, A10005523, A10005358, A1005527, A121754, A1035684, A1004034, A1005913, A1006071, A1000049, A1007536, A1005902, A1006285, A1007216, A1005703, Z95114, U178027, U191326, A1006011, A1006449, A1000311, A1002059, A1005839, A1000512, A1049795, A1049766, A1049793, A1003956, A1005288, A1049709, Z98200, A1002511, A1004242, A117694, L44140, A1005914, A1049692, A1003030, A111169, A111168, A1022311, A1045555, A10045399, A1004167, A1004878, A1007227, A1035422, A1004796, A1006511, A10020291, A1005104, A10031078, A1004821, A1005081, A1005004, A1033392, A1006057, A1004150, A1005318, A1002492, A1005722, A1030876, U62293, A1004882, A1004253, U63721, A1005736, A1006111, A1007225, A103569, A1007030, A1000052, A1005695, A1022313, A1109907, A1002045, A1031393, A1000026, A1007395, A1141309, A1031282, A1034351, A1002544, A1022327, A10066270, A121655, Z83840, A1005015, A1049872, A1004854, A113245, A1005412, A1005799, A1022328, A1001053, A1002115, A104943, A1003626, A1246003, A1006360, A1018633, |

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| HCWFT33  | 1187 | 959471 | 1 - 258 | 15 - 272 | AF196779, AL020997, AC002302, AC007308, AC004099, AL022237, AC002314, Z98048, AC005251, AP000513, AC004383, AF196969, AL031591, AL050346, AC005619, AC003688, AC006001, AL050318, AC004884, AC004816, AC005082, AF207550, AC002312, AC006023, AC005291, AC005274, AL031280, AL022316, AC005216, U07563, AF114156, Z84469, AC004491, AC007358, AC002310, AC000070, AC004894, AC005520, AL022334, AC003101, AC006055, AL133448, AL133553, AC002984, AC004887, AH001523, AC007919, AC002468, AC000009, AL080243, AC006487, AP000508, AP000326, AC007151, AC002477, AC006498, AL049757, AL121603, AL021154, Z83826, AL132777, AC006084, AC003006, AC004967, AC006368, AL049869, AC008044, AC005519, AC003070, Z83846, AL031368, Z84822, AP00122, AP001069, AP000054, AC004999, AL118497, AF038458, AC007263, AL022322, AC004805, AL109613, AC007066, AC002394, AC005257, AL035398, Z99716, and AL031003.   |
| HCWFT44  | 1188 | 935855 | 1 - 338 | 15 - 352 |  |
| HCWFT77  | 1189 | 739571 | 1 - 259 | 15 - 273 | AP022362, AA130574, and AC004492.  |
| HCWFT84  | 1190 | 542236 | 1 - 396 | 15 - 410 |  |
| HCWFT003 | 1191 | 921944 | 1 - 307 | 15 - 321 | AW205685, AL698601, AA884459, N23262, AA552480, and AA905404.  |
| HCWFT007 | 1192 | 861902 | 1 - 107 | 15 - 121 | AC006501.  |
| HCWFT019 | 1193 | 573135 | 1 - 536 | 15 - 550 |  |
| HCWFT032 | 1194 | 716340 | 1 - 473 | 15 - 487 |  |
| HCWFT064 | 1195 | 577888 | 1 - 364 | 15 - 378 |  |
| HCWFT066 | 1196 | 853005 | 1 - 392 | 15 - 406 | AA745185, AL216430, AP000553, and AC009516.  |
| HCWFT076 | 1197 | 576839 | 1 - 401 | 15 - 415 | AA768179, AA368329, AA346867, AA348271, AW439810, AL278130, AL904944, T07285, AA558404, AW768090, AA229823, AL567191, AA228979, AW243945, AA279385, AA112924, N86484, F0586, AA297443, AA583579, AA078384, AL283938, AL421257, AA178489, T99020, AA504925, AA745297, AL273837, AA972523, AA372311, AL369076, R99613, N40907, AA581240, AA582746, AA559205, AL984168, AA367014, AW008184, F00458, M62257, AA424249, AL299442, AA449468, AA581185, AL016192, AL932871, T62078, AA229422, AA160427, AA484892, W26972, AA515172, AA385775, AA583568, AA372389, AA354695, AA838098, AL003391, N92697, AW194046, AL889426, AA523695, AA582350, AL859744, AA653713, C15362, AA336376, W237905, AA831801, N77384, AA720582, AL915081, AW341955, AA573000, AA482792, W328331, AA302978, AA728911, AA664248, D51809, AA610255, AA419225, AW341882, AA630854, AA502110, AA115865, AW272389, AL223968, AA634991, AW328330, AA488687, AA832016, AA661883, T40550, AA503307, AA354677, AW265888, AW151247, AL154333, AA584765, AA837771, AL146266, AA352521, AA838161, AW249720, T47138, R08409, AL859438, AA427808, AA481811, W02749, AL041895, AA515939, AL123488, F17537, AA669747, AL927275, AA810837, AA425924, AA678016, N52276, AA364988, AL537800, AA329535, AL187148, AC005538, AC004098, AC002066, |

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| AIJ33269, AC0050331, U80017, AC004858, AC007637, AC004526, AC004148, AF109907, U02051, AL109952, AL031587, AC004019, Z97630, AC004253, AC007738, AL024509, U62292, L34635, AC005955, AC005089, AL131163, AL133245, L05367, AC005480, AC000064, AL096791, AC005231, AL096766, AL024948, Z83826, AL049776, AC004821, AC003004, AC006537, AC006641, AC005919, AL049636, AC004913, AC001346, AC007551, Z94056, AC004970, AD000092, AC004856, AP000502, AC004131, AC005015, AC002350, AL035079, AL096712, AC007566, AC006263, S42652, Z84722, U63721, AL096703, AC007182, AC000025, AC005666, AC003007, Z98941, AC006276, AL050318, AC002369, M87890, Z96470, AC005611, AC002310, Z68873, AC006344, AC004849, AC007842, AL022315, AC005730, AC005479, AC007436, AC005328, AL021579, AB022785, AC004517, L35532, AC005258, Z49236, AC005837, AL031311, Z85986, U95742, AL135744, AC007421, AL049832, AL034429, AL049540, Z15025, AC005632, D38522, AL008715, Z97053, AP000326, L78833, AP0007686, AB023049, Z84474, AC002477, AP000054, AP000169, AP000122, AC005377, AJ236701, AC006126, AC005332, Z69917, AC007314, AL132987, AC005211, AC005826, AC006254, AC016027, Z84469, AC007435, AC006379, AC004973, AC002306, AC004851, AC004030, AC007860, Z82208, AC003029, AC005180, AC016830, AC003010, AC000075, AC004655, AC004882, AF196971, AL031230, AL022311, AP000512, Z98048, AF134726, AL121838, AC0012627, AP000503, AC005071, AC005839, AC004686, AL049830, AC006132, AC007384, AC007216, AL133243, AP000253, Z81364, AC004663, Z83844, AL035072, AC007225, AL049712, AC005210, AC006388, AF047825, AC009946, AP000691, AC005681, Z85994, AL035685, AC005519, U16302, AL031281, AC006125, AC004542, AC004816, Z93017, U91326, AL031728, AC007226, AF001550, AL133312, AC004811, AC005306, AC004626, AC004802, AC004883, AC004841, AC000070, Z97054, AC003081, AF111169, AC006976, Z83840, AC006285, AP000008, AC004707, AC002045, AC005696, AL021707, AC005200, Z95114, AD000864, AC005763, AC005736, AL121655, AL049757, AC004685, AC006251, AF032368, K01254, AL034421, AC005911, AL109798, AL024474, AC005759, AL049758, AF124523, AL049794, AL031983, AC002300, U62293, AC005280, AP000704, AP000498, Z93848, AC004825, AC003688, AL008718, AC005971, AL031258, AL035658, X54486, Z8026898, AC004859, AC006480, AC009247, AC004662, AC007731, AC005527, AL109967, M17262, and AC005500. | 15 - 529 | 1 - 515 | 1198 574864 | 1198 | HCWRFU83 |
| T71420, H65742, R17043, R53388, N19910, AL031295, and AL049675.  | 15 - 305 | 1 - 381 | 1199 840953 | 1199 | HCWRFV16 |
| R92125, T98334, AL424340, AA632445, and AC004749.  | 15 - 363 | 1 - 349 | 1200 849905 | 1200 | HCWRFV21 |
| AF001550.  | 15 - 261 | 1 - 535 | 1201 735993 | 1201 | HCWRFV25 |
| AA488048, AW007822, AC005244, AC004673, AL080241, AC004075, AC002412, AC004388, AL132668, AC005100, AF117829, AL022158, AC004585, Z95152, AL022310, AC004478,  | 15 - 470 | 1 - 247 | 1202 960099 | 1202 | HCWRFV32 |
|  |          | 1 - 456 | 1203 577896 | 1203 | HCWRFV34 |



|          |      |        |         |          |  |
|----------|------|--------|---------|----------|--|
| HCWFXV37 | 1204 | 575715 | 1 - 408 | 15 - 422 | AC000114, AC007680, AC004014, AC007655, AC006313, AC007115, Z80771, and AL035464<br>N64515   |
| HCWFXV50 | 1205 | 572366 | 1 - 433 | 15 - 447 | AC004007   |
| HCWFXV69 | 1206 | 527087 | 1 - 410 | 15 - 424 | AA911986, and AP001055   |
| HCWFXV51 | 1207 | 671807 | 1 - 493 | 15 - 507 | N51043   |
| HCWFXV23 | 1208 | 675902 | 1 - 332 | 15 - 346 | AL110853, and Z69304   |
| HCWFX30  | 1209 | 825920 | 1 - 322 | 15 - 336 |  |
| HCWFX44  | 1210 | 703028 | 1 - 503 | 15 - 517 |  |
| HCWFXZ30 | 1211 | 692719 | 1 - 310 | 15 - 324 |  |
| HCWFXZ56 | 1212 | 733414 | 1 - 294 | 15 - 308 |  |
| HCWGA27  | 1213 | 861968 | 1 - 325 | 15 - 339 | AI880278, AW276156, AI983646, AA877596, AI887774, AI347477, AI673036, AI458241, and<br>AL022237  |
| HCWGA32  | 1214 | 699272 | 1 - 331 | 15 - 345 |  |
| HCWGB61  | 1215 | 733105 | 1 - 487 | 15 - 501 | L44329   |
| HCWGB64  | 1216 | 578734 | 1 - 158 | 15 - 172 |  |
| HCWGB78  | 1217 | 861843 | 1 - 380 | 15 - 394 |  |
| HCWGC02  | 1218 | 917348 | 1 - 321 | 15 - 335 |  |
| HCWGC50  | 1219 | 772358 | 1 - 399 | 15 - 413 |  |
| HCWGD20  | 1220 | 906973 | 1 - 373 | 15 - 387 | AI636734, AA557982, AA715527, AA715344, AA284247, W02749, W63553, AA715284,<br>AI923360, AA557136, AA742815, AI929298, AI929825, AI120543, AI039930, T47138,<br>AW157180, AI291419, AW403829, AA401921, AI571866, AA219349, AI368873, AC006141,<br>AC004257, AC005317, AC005071, AL031123, L78810, AC004542, AC007216, AP000501,<br>AC007052, AC006449, AC003665, AC005531, Z85987, AC007637, AL008726, AC007546,<br>AF001548, AC007686, AC004821, AL031295, AC005529, AI135744, AC000353, AP000313,<br>AC005911, S45332, Y10196, AC004825, AP000050, AF196779, AI251973, U95740, AC005088,<br>AC004797, AP000117, AF134726, AC006581, AC006211, AC005696, AP000557, AC006946,<br>AC004638, AL050342, AC006130, AC005484, AC000025, Z84718, AC004890, U78027,<br>AL078593, AC003070, AL033375, AC006360, AD000092, AL035422, AC007690, AL049874,<br>AC009516, AL050327, AC005015, AC006251, U91326, U95742, AF045555, AC006241, Z99495,<br>AC002310, AC006480, AC004531, AL031733, AP000350, AC005261, AC020663, Z98884,<br>Z98941, AC006121, AC005081, AC006084, AP000302, AC004820, AC006160, AL109628,<br>AP000558, AC005102, AC006487, AP000352, AC002416, AC004765, AC002425, AC005189,<br>AP000114, AP000046, AL078477, AL035684, AC005920, AC007376, AC005740, AC002544,<br>AC004876, AC010582, AL031680, AP000503, AC002477, AL133246, AC007041, AC005324,<br>AC007880, U47924, AP000065, AC009405, AL022240, AC005027, AC006539, AC004983,<br>AC004832, AC005919, AL031311, AC004815, AC004448, AC003002, AC007738, AC007225, |

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|---------|------|--------|---------|----------|---|
| HCWGD33 | 1221 | 849009 | 1 - 327 | 15 - 341 | AL121655, AC003000, AC004927, AC004933, AC008044, and AC006080.   |
| HCWGD66 | 1222 | 496411 | 1 - 264 | 15 - 278 |   |
| HCWGE12 | 1223 | 967067 | 1 - 364 | 15 - 378 |   |
| HCWGE22 | 1224 | 727967 | 1 - 328 | 15 - 342 | AA330772, AW022897, R79496, AA188940, HI2383, AL033897, AL133974, AA370455, AL031584, Z98941, Z97055, AC004815, AC005015, AC004584, AL022165, AC005952, AC004491, AC000134, AC005821, AL003147, AC004876, AC004966, AC005102, AL031276, AC003690, AC007842, AC004552, AC006071, AC006285, AC005280, AC005300, U07563, AL035071, AC002045, AP000692, AL049757, AC002299, AC006953, AC005048, AC008044, AC005527, AP000513, AC004976, AC007151, AC016830, AB023049, AC004526, AL121578, AC005529, AC002470, AC006312, Z85986, AC007993, Z84469, AC002558, AC004638, AC005726, AL031279, AF111168, AC004967, AC004832, AL020997, U91326, AC007541, Z82208, AC004263, AJ229042, AC000025, D84394, AC016025, Z96074, AC005519, AC007041, AL034429, AC007308, Z95115, AC006252, AL031311, AJ251973, AL035659, AC005011, AC004167, AC006251, AL035089, AC005899, AC002544, AL096702, AC002365, Z98946, AC004770, AC006121, AL132712, AC004945, AC007421, AF064861, AC006530, AL031291, AC006946, AC006211, U80017, AC000359, AP000346, AF128525, AP001054, AC000357, AL009181, AL035430, AL009182, AL133500, AL031228, AC005081, AL010770, AF001552, AC008372, AL022722, AC006388, AC006023, Z97053, AC004228, AC002565, U52111, AC006120, AL035681, AC006450, AL049872, AL049636, AL034555, AL035415, Z99128, AL035587, AC006940, AC006115, AC002070, AL022238, AC006324, AC005940, AC016027, AC004687, AP000252, AP000211, AP000133, AP000167, AC004216, Z82201, AP000689, AL008726, AP000558, AC004887, AC005874, AF134471, Z93930, AC005993, AC003108, AC006006, AF038458, AC007676, AC002301, AC006012, Z83178, AC009247, AC006544, Z98304, AL021878, AC004953, AP000031, AL021546, Z83845, AC005180, AL049779, AC005800, AC005480, AP000694, AC002059, and AC004217. |
| HCWGE23 | 1225 | 853004 | 1 - 453 | 15 - 467 |   |
| HCWGE25 | 1226 | 657236 | 1 - 363 | 15 - 377 |   |
| HCWGE39 | 1227 | 705403 | 1 - 58  | 15 - 72  | AL11654, and AL032916.  |
| HCWGE47 | 1228 | 925105 | 1 - 429 | 15 - 443 | AC004072.   |
| HCWGE53 | 1229 | 728249 | 1 - 342 | 15 - 356 | T47041, and AC010385.   |
| HCWGE65 | 1230 | 720349 | 1 - 348 | 15 - 362 |   |
| HCWGE73 | 1231 | 757333 | 1 - 198 | 15 - 212 |   |
| HCWGE78 | 1232 | 527557 | 1 - 325 | 15 - 339 |   |
| HCWGE92 | 1233 | 792722 | 1 - 273 | 15 - 287 | AL117411, AF109126, and X99338.   |
| HCWGF06 | 1234 | 935492 | 1 - 398 | 15 - 412 |   |

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|---------|------|--------|---------|----------|--|
| HCWG71  | 1235 | 960089 | 1 - 436 | 15 - 450 | AC008055.  |
| HCWG74  | 1236 | 529235 | 1 - 231 | 15 - 245 |  |
| HCWG75  | 1237 | 682351 | 1 - 347 | 15 - 361 |  |
| HCWG76  | 1238 | 752789 | 1 - 321 | 15 - 335 | AA719214, and AA716020.  |
| HCWG91  | 1239 | 754244 | 1 - 141 | 15 - 155 |  |
| HCWG92  | 1240 | 861865 | 1 - 293 | 15 - 307 |  |
|         |      |        |         |          | AW166641, A1049676, AA747098, A1668994, A136771, AW069227, A1634187, A1457313, AA837325, A1018726, AA318652, A1037777, A1044712, A1252726, AA525332, A1369076, W26972, A1241637, A1044177, AA484651, AA598605, A1243793, A1679045, A1120004, AA588353, AA487209, AA376358, A1039761, A1017733, AW270429, T53133, AW270351, AC002381, AP000959, AC004908, AP000070, AP001053, A1078581, U89335, U52111, U85195, AE00658, AC007221, Z73913, A1049828, AC007214, AC004647, Z95152, AP000168, A1031685, AC007934, AC004584, AC005829, A1049589, AF111167, AC005587, A1109837, A1035089, AC003950, L11910, AC004787, A121757, AC000081, AP000501, A1022345, A1022163, Z83838, AC004859, Z81010, U78027, AC005921, AC005625, AC005822, AP000251, AC009405, A1049699, A1011930, AC002091, AC003973, AC008101, AC005873, AP000030, AP000507, AP000557, A1035071, AP000555, AC006115, AC005225, AB002353, AC004796, AC006515, A1034418, AC002565, Z84474, A1021397, AC006541, AC005391, A1165141, AC003002, AC005231, AP001054, AC002543, AC005237, AC005920, A1022326, AB023049, AP000512, A1109613, AC009275, AC005666, A1049759, Z81370, AC004912, A1035422, AC005755, AP000503, A1023553, AF134726, A1031391, A1035587, AC002314, AC006277, AD000671, Z86063, AC003030, A1022320, AC004001, A1031282, AC004685, AC004466, A1009174, AC004876, Z97054, AC004812, A1096791, A1031427, Z98200, AC005184, AP000553, Z83844, and AC005089. |
| HCWG07  | 1241 | 849889 | 1 - 388 | 15 - 402 |  |
| HCWG039 | 1242 | 849891 | 1 - 575 | 15 - 589 |  |
| HCWG062 | 1243 | 916454 | 1 - 349 | 15 - 363 |  |
| HCWG071 | 1244 | 710828 | 1 - 371 | 15 - 385 | N88113, N8562, N86592, AA097643, AA091872, and AA096089  |
| HCWG080 | 1245 | 529242 | 1 - 319 | 15 - 333 |  |
| HCWG084 | 1246 | 853106 | 1 - 388 | 15 - 402 | R51952, and AC003214.  |
| HCWGR34 | 1247 | 925577 | 1 - 363 | 15 - 377 |  |
| HCWGR43 | 1248 | 734888 | 1 - 302 | 15 - 316 | AA513238, AA526630, A1051037, A1243789, A1002810, A1051457, AA329659, AA064815, AA707879, F07155, AA 362988, A1027056, A1002207, W03818, A1581486, T91561, AA657835, AW188427, R22496, R63562, H03144, AA578358, AA328676, AA503407, A1149724, AA297006, AF053356, AC005409, AF001550, AC010205, AC004895, AC001003, AC004851, AC006211, A1078581, A1020997, Z83846, U91318, AC003684, AC007685, AC004821, AC004098, AC005914, AC004796, AC005484, AC005919, A1049869, AC005243, A1133371,   |

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|         |      |        |         | AL013657, U85195, U07563, AP000514, AC006539, AC005338, AE000638, AC002395, AC006571, AC005082, AC004242, AL008729, AC005399, AL035695, AC005237, Z84483, AC008154, AC007566, AF000223, AP000511, AC005632, AL0022238, Z98742, AC008372, AC007041, Z82215, AC008038, AC005562, AC006960, AC000085, AL035684, AF000512, AC005779, AC005516, AC004019, AF001548, AC004000, AF064861, AL022239, AC005180, AC002400, AL034451, AL031363, AC005035, AL049833, Z93783, AL022718, L78810, U91323, AC004605, AC006050, AF196779, Z83843, AC004217, Z85987, Z99774, AC004167, AL096701, AF106564, AL031662, AC005483, AC004963, AC003070, AF000045, AL132992, AL022312, AF165926, AL050318, AL035086, AC004139, AC007225, AC003007, U80017, AL049795, AL080243, U95743, AL008718, AL031311, AC009509, AL049780, AC005725, AC002301, AC004386, AC006241, AL050348, AC000353, AC009223, AC004890, AL096761, AC004996, AC006023, AF030453, AC005531, AL049871, Z94044, Z69917, AC007376, AC005088, AC006480, Z98930, U52112, AL031431, AF205588, AL034420, AC004878, AC007919, AC005037, Z82172, AL121653, AF111167, AC002504, AL117355, AC007226, AC002350, AL023284, AC007993, AL034449, AC007199, AL109939, AC005736, AB020859, AF088219, AC004216, AC000159, AL121754, AP000509, AC016027, AC007537, AC005722, AL035091, AC016830, AC007055, AC006531, AC005529, and AC006055.  |
|         |      |        |         | AC007684, AC009177.   |
| HCWGR47 | 1249 | 719518 | 1 - 251 | T40338, AA657918, AW080134, F16127, F37169, AW265654, AA469451, AA984640, AA704643, AL041368, AL138242, AA491545, AA713767, F29989, AA649642, AL200051, AW023389, AA650434, H65428, AL355206, AA501809, AF061334, AA831388, AA525151, AW406659, AA847128, AA364224, F34795, AA601355, F23249, AA640979, AA156338, F33511, AA678436, AA491814, T63104, N27353, AA533725, AA513939, AA581903, AA649705, AA634238, AA747472, AA714453, AB24562, AA482711, AA310868, AB924251, AA604869, AA654979, AA847753, AA525406, AB63720, AA364315, AA507824, AL601892, M77895, AW104748, AW236342, AA503258, AL043721, AA407307, AA441788, AA310879, AW250970, AB963095, AL303008, W07122, M62272, AA457771, AA318652, AB982651, AA569075, AA470983, AB284640, AW088058, AB471464, F28776, F35673, H64777, AW272758, AA206935, AA604897, AA713534, AB18421, AA235575, AA768905, AB251002, AA708352, AB610159, AL344844, AA749274, AA371567, AB471487, N31557, AA515224, AA767376, AA347531, AA644551, AB962050, F27027, AB287651, AA626678, AA702614, AA745560, AA302732, AA644538, AA831599, AB287528, AB192287, AA425932, AA668578, AB653905, AA101689, AA513972, AW265294, AA523810, H22634, AA713762, AA100372, AA652057, AA603323, AB708009, AB119333, AB246796, AA6469460, AA578017, AB611851, AB264743, AA573020, AA468022, AA640900, F23315, AA557879, AA369477, AB10920, AA683037, AB1281697, AA143477, T49241, AW406447, AA652960, F36404, AA199660, F32808, AB119691. |
| HCWGR48 | 1250 | 690954 | 1 - 167 |   |
| HCWGR69 | 1251 | 849946 | 1 - 422 |   |

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|--|------|--------|---------|----------|---|
| AW341900, AA551201, AA635067, AA601876, AA192695, A1270326, AA910125, N55273, AA535937, AA071144, A1471572, AA357987, AA557325, A1160117, AA747480, AA665021, A1523608, H96730, A1061296, AA071393, R96657, A1917271, A1633007, F36273, AA526193, AA746726, AA931647, M73551, Z30994, U22376, U57007, Z30983, X54176, Z31005, Z98885, AF087913, AL049759, AC009263, AC005839, AF015148, AC004887, M87919, M77848, AC007050, AL109839, U91326, X75335, A121655, AC005787, AF015155, Z30979, AF192789, S77605, U14717, AL096701, S75337, AF015152, U02049, U14711, U14712, U14713, J03071, AL079295, AL109628, L44140, AP000556, AC005520, AL117258, AP000552, Z81369, M77849, AF015153, AL034401, AL078581, AF015160, U14708, Z83840, AC005740, M29322, AC020663, AC005280, AC005785, AP000117, AL022316, X67330, AP000553, AL133382, AC0009516, AC006538, AC002544, AC002055, AC000951, I51997, AL031276, AC004890, AL009179, AL031229, AC003688, AL021937, AC002425, AL035535, U47924, AC007160, Z75887, AC003046, D26535, AC004463, S75201, AC005763, AL049697, AC005988, AL080248, AC003553, AC005412, AL035688, AC004263, AC006285, AC006312, AL135744, AL031732, AC004797, AF207550, AC006505, M89651, M87918, AF054569, AC006360, Z32772, AL049757, AC004859, AC007462, AC007731, AC007740, AP001045, AC006441, AC005500, Z98884, AP001052, AF111170, AC006241, AL020989, X06653, AL049829, AC006130, AC005516, AC016025, AC005102, AC004477, AP000357, AC006012, AF180475, AC005399, AC0004139, AL078621, A1011930, AP000272, AC006079, AL096774, X77859, AC005829, Z98030, Z84721, AC009946, AC007537, AC004531, AC005088, AC004224, AL035071, Z49236, AC007488, AC007360, AP000079, AC005527, AC007664, AC000004, AC002301, AL024495, AC006011, AC007382, AC006037, AL022313, AL049576, AC004645, AC002984, AC005921, AC001018, AC005105, Z86004, Z84480, AL049795, AL049569, AL132987, AC004775, AL035410, AC005370, AF015416, AC005355, AC004492, AC005257, AC006252, AF110465, AB023049, AC004808, U14719, AC003104, Z98052, Z75744, AC010582, AL035423, AC006317, AL034430, AC005920, AF024533, AC018767, AL034553, AL031255, AC005924, AC007064, AC007057, AC004050, AP000745, AC003109, AB031740, Z84474, Z97053, Z82244, AC005011, U34055, M77847, AL034379, AL008708, AC007676, AL021878, AC011604, AL049699, AL121658, AC005567, U34052, M64231, AF121781, and AL049539. |      |        |         |          |   |
| HCWGR76  | 1252 | 778293 | 1 - 399 | 15 - 413 | N88601, AA247827, N84855, H58760, N84048, N83993, N84718, U39066, AF039698, AF032922, and S78798. |
| HCWGR88  | 1253 | 736056 | 1 - 202 | 15 - 216 |   |
| HCWGT45  | 1254 | 913730 | 1 - 691 | 15 - 705 | N53076, T90911, D25951, AA650097, and A1801737.   |
| HCWGT49  | 1255 | 527085 | 1 - 406 | 15 - 420 |   |
| HCWGT66  | 1256 | 531374 | 1 - 448 | 15 - 462 |   |
| HCWGU11  | 1257 | 967064 | 1 - 650 | 15 - 664 | AA913734, AL056453, and AW194191.   |
| HCWGU49  | 1258 | 674752 | 1 - 227 | 15 - 241 | AA947385, AA468583, and AC005214.   |

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|-----------|------|--------|---------|----------|--|
| HCWG/GU57 | 1259 | 705637 | 1 - 117 | 15 - 131 | A1078214, H77522, and A1052167.  |
| HCWG/GU86 | 1260 | 660943 | 1 - 295 | 15 - 309 |  |
| HCWG/GW10 | 1261 | 935865 | 1 - 382 | 15 - 396 | AC004590.  |
| HCWG/GW12 | 1262 | 964088 | 1 - 426 | 15 - 440 | N56555, N88601, AA093861, AA247827, N84048, N8393, N84855, N87989, AF045432, AJ243486, U48696, AF039698, and AF032922.   |
| HCWG/GW13 | 1263 | 849911 | 1 - 395 | 15 - 409 |  |
| HCWG/GW32 | 1264 | 615553 | 1 - 448 | 15 - 462 | Z69705, and AC004754.  |
| HCWG/GW63 | 1265 | 745091 | 1 - 57  | 15 - 71  | W07329, A1638772, A1766112, AA947305, A1684857, AF086142, and AF086126.  |
| HCWG/GW80 | 1266 | 742103 | 1 - 153 | 15 - 167 |  |
| HCWG/GW85 | 1267 | 556369 | 1 - 265 | 15 - 279 |  |
| HCWG/GW86 | 1268 | 785506 | 1 - 330 | 15 - 344 | AA584167, AA747070, A1345157, AA580808, AA493695, R95139, AW075948, AA847499, AA468022, AW275510, AA501762, AW193265, AW438643, AW302903, AW249224, AW577959, A1873852, A1042753, A1873990, AA478355, AW149313, A1872020, A1247199, AA483771, A1754658, A1350211, A1687343, AW274349, AA662225, A1583283, A1696962, AA531079, A1048925, A1866013, AA808877, AA724333, AW303196, A1040342, A1038072, AA679532, AA224083, AA515999, AW303002, A1567076, N35602, AA507824, A1133297, AA568869, AA515334, AA847952, A1613280, AA961035, AA468456, A1270117, AW002350, A1471887, AA321168, AA490183, AA333638, AA428792, AA524821, AA369254, N29815, AW301350, A1305766, A1972203, A1584186, AW069769, AA912099, A1932493, AA664909, AA857486, AA683258, A1281881, A1284640, AA613345, AW264934, AA504877, AA588001, AA828749, A1801482, AA169263, AW023990, AW103758, AA634889, AA502860, A1608668, AW235497, AA483223, AA224525, AW276817, AA581903, AA661921, A1054343, AW327868, A1963720, A1120933, A1046205, A1041690, AW270709, AA584082, A1042853, A1634384, A1865905, AA653375, A1368256, AA469451, AW083402, AA623002, A1783494, AW270382, AA938105, A1733755, A1933534, AA812281, AA483929, AA019312, AA577906, AA584581, AW419262, A1042547, AW083364, AA167055, AA557636, AA581123, AA610491, A1434706, AA579179, A1744095, AA682912, AA639326, A1654525, AW274346, A1866160, A1431303, AA579075, A1345654, AA719292, AA658362, AA788901, AW248803, A1445674, AA523837, AA720702, A1816141, A1002510, A1120927, A158431, A1118991, C16397, AA846876, AA220943, AA613397, A1046409, AA192740, A1133164, AA178953, T06648, AA534792, A1110844, AA715255, T74382, AA715267, AA848134, A1120269, A1824706, A1698447, A1085719, AA478297, A1040130, A1093030, AA533762, AA584667, A1640841, R35746, AA380354, AW276710, AA745406, AA578997, A1470646, AA650376, AA581076, AA601270, A1063390, AW275971, AW301809, A1580250, A1241821, T51911, AA503015, AW118539, R02632, AA126777, AA747480, AA326372, AA533333, A1254913, H71429, A1708009, AA631507, AW168618, A1636730, AA480784, AF034184, A1119713, AW050498, Z84482, AC005028, AC002549, AC006155, AC004620, A1022329, AC005375, A1117356, A1021408, AC005768. |

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| AC005217, AC004453, Z83843, AC002463, AP000049, AP000311, AC011422, Z84490,<br>AL022722, AC004386, AC005378, AC002365, AC003101, AB020873, AL080278, AC019014,<br>AL035541, AC006975, AC0004825, AC006270, AC004991, AL049869, AC013012, AC005007,<br>AC005040, AC005829, AC008040, AC004381, AC004796, AC006287, Z869724, AF127277,<br>AC012085, AL080285, AL049647, AL023280, AC006360, AL008634, AC007514, AC006047,<br>AC003670, AC002480, AL034430, AL031575, AC005697, AC005668, AC007023, AC0050703,<br>AL031774, Z85987, AC005046, AC006971, Z98200, AL050343, AC005598, AL049653, Z73358,<br>AC002395, AC002554, Z94721, AL022400, Z81165, AL109865, AC007676, AP002223,<br>AP000248, AL023580, AF200465, AL035086, AL035634, AL033531, Z83840, AC005166,<br>AC004949, AC002418, AC006160, AL229042, AC005411, AC005920, AC005922, AL035091,<br>AL080239, AL109985, AL031316, AP000228, Z84478, AL133382, AC005184, AL031595,<br>AC016831, AL049792, AL110292, AP000140, Z92545, AB003151, Z86062, AC004979,<br>AP000688, AP001038, AF201337, AF001549, AP000210, AP000132, AC005081, AC006478,<br>AL132718, AC009802, AC005880, AC005183, AC003002, AP000088, AC004837, AL034350,<br>AL035697, AL031276, AL109758, AC006165, AC004259, AC004765, Z84486, Z83820,<br>AC004600, AC000113, AC006501, AL031427, AC007401, AL033403, AL049539, AC007014,<br>AC005589, AC005389, AF003627, AC005245, AC005537, AC005737, AC005230, AP000967,<br>AL136168, AC007899, AB023051, AC004948, AL020993, AL049776, AF130433, AL109963,<br>AL133404, AC009784, AC003085, AL050333, AC007114, AC004134, AC003999, AC000114,<br>AL109753, AC007199, AL035070, Z99495, AC005048, AL035072, AC003108, Z84488, U82828,<br>AF007544, AC004606, AC005477, AP000512, AC006548, Z94277, AL136504, AL022100,<br>AF015262, AL121595, AC015853, AC007425, AC004701, AL229043, AL006996, AC008179,<br>AL031589, AC007463, AP000459, AC010200, AC007919, AC008078, AC005686, AC005070,<br>AC007253, Z95116, Z95115, AC009263, AC005104, AC005207, AL049557, AL035534,<br>AC002394, AC006027, AC003962, AL022326, AC004996, AC005242, AP000108, AL009051,<br>AC004804, AP000494, AC000946, AC007656, AC006959, AF045555, AC005887, AP000111,<br>AC006079, AC004593, AC009516, AC009479, AP000351, AC005534, AC008417, AC007051,<br>AF053356, AC005997, AL096678, AP000104, AC005509, AL022399, U91324, AL022163,<br>AC011604, AL109802, AC006441, AC006285, Z93023, AC002302, AP000043, AC003963. |        |          |           |  |  |
| AL042667, AL042670, AA642809, AL048860, AW272815, AH33952, AL889995, AL753904,<br>AA553232, AA525818, AA584360, AL10670, AL568376, AW104161, AB697235, AA533381,<br>AA603359, AA669238, AA676592, AW192419, AL733856, AL049643, AL697239, AL697242,<br>AL791659, AL041375, AA640305, AA298365, AA179364, AL702080, AA630476, AA324108,<br>AL927275, AL436433, AL523540, AL346633, AA284247, AA714011, AL107187,<br>AL279417, AW238341, L866725, AL355246, AL801563, AL475297, N54538, AL1380617, AL690379,<br>AL755227, AL049845, AL431442, AL859368, AL036282, AL473671, AA515727, AL814750.  |        |          |           |  |  |
| HCWG95<br>1269   | 958780 | 1 - 451  | 15 - 465  |  |  |
| HCWG95<br>1270   | 902512 | 1 - 1076 | 15 - 1090 |  |  |

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| AL349130, AW089625, AA747234, AA085410, AW409626, AA218851, N40092, AW148964, A719298, AL679902, A1925423, A1679394, AL678812, A720582, A1075753, AA814503, AA490602, AL101365, N673113, AA703818, AA493947, AL360558, R99532, AA807684, A1025857, AL285493, AA119230, R51520, AA314404, AA233462, AW409621, A7178440, AL277373, AL1808499, N66775, AA768079, AL800426, A1923052, AL039436, A1144125, A1567676, AW328446, A1869797, AA086042, AL118808, U52112, Z98048, AC006064, Z93023, AL096701, AC007707, AC007934, AL031680, AF124523, AC005484, U91321, AC006121, AC006328, AL050321, AF038458, AL008582, AC005280, AC007371, AF196969, AL080243, AC002037, AB000882, AC006208, AC005099, AL022721, AC004815, L78833, AC007226, AF109907, AC009247, AC004962, AL031123, AL021939, AC005089, AL031311, AC005412, AL034420, AP000513, AC007546, AC004662, AF184110, AC005358, Z95116, AL139054, AL109801, AC008134, AF047825, AC006659, AC005971, AP000506, AC007277, AL021391, AF053356, AC004522, AC000039, AC003663, AP000512, AL049569, AL049776, Z85986, AC006344, AC002425, Z95114, AC005520, AL035681, AF146367, AC004805, AC004770, AP000348, AL109798, AC006538, AC005257, AC004963, AC004304, AC004967, AL121756, AB023051, AP000049, AC005004, AL136504, AL049843, AC004777, AC006946, AL022476, AD000092, AP000085, AC004475, AC006441, AP000311, AC005094, AC007055, AC004448, AC009464, AC007656, AP001104, Z83838, AC006449, AL131363, AC005193, AP000501, AC004655, AL022326, AC003071, AC004858, AF129756, AC0070637, Z83847, AD000833, Z98946, AL049733, AC007052, AC004106, AP000555, AC005486, AL021393, AC003973, AC005288, AC005399, AC002394, Z98200, AC005619, AL022337, AC007041, AL021575, AL022327, AL031904, AL035071, AC005839, AC007688, AC005531, AC004656, AC003962, AC002565, AC005594, AC005566, AF003626, AC004009, AC005274, AL035464, AL049844, AC005841, AC006075, AC000084, AL031289, AC005663, U80017, U82828, AC006600, AC004382, AL050312, AC005664, AP000157, AP000345, AC006046, AL031427, AP000011, Z93244, AL049759, Z81364, AC008126, AC002401, AL031228, AL049795, AC003982, AL031432, AC005067, AC010205, AC004129, AC005368, AC007308, AL049780, AC003108, Z82206, AC003042, AP000346, AC003665, Z84469, AC004491, AC002126, AC006213, AL035588, U92032, AC005332, AL135960, AL131016, AB0000877, AC003950, AC009248, Z96074, AL035540, AP000247, AF050347, AC007537, AL034417, AC005006, AC002470, Z81370, AC005736, AL009181, AF055588, AL096775, AC005206, AC007030, Z86090, AC004825, AC003690, AL031599, AP000556, AB023049, AC002090, AL035683, AC006165, AC005180, AC005694, L05367, AC007225, L47234, Z93241, AC005880, AC006065, AC003956, AL031120, AL078476, AC005666, AC010200, AP000152, Z93017, AL008583, AC005667, AP000014, AC002996, AL117325, AC006080, AL132809, AC002316, AL021155, AC004953, AL021707, AC004922, AC005837, AC005924, AC005512, AP000126, AP000204, AL132826, and AL050348 |  |  |  |  |
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| HCWG323 | 1271 | 720486 | 1 - 312 | 15 - 326 | AC004033, AC007731, and AC005500.  |
| HCWG341 | 1272 | 849887 | 1 - 343 | 15 - 357 | C18732, AA634806, AA729161, and AA729860.  |
| HCWG358 | 1273 | 920693 | 1 - 743 | 15 - 757 |  |
| HCWG368 | 1274 | 733413 | 1 - 115 | 15 - 129 | Z95115, AC004491, AC005089, AL049843, and AC004973.  |
| HCWG382 | 1275 | 924102 | 1 - 274 | 15 - 288 |  |
| HCWG394 | 1276 | 793197 | 1 - 170 | 15 - 184 |  |
| HCWG402 | 1277 | 920113 | 1 - 348 | 15 - 362 |  |
| HCWG403 | 1278 | 924208 | 1 - 251 | 15 - 265 | AI183881, AW014092, AI085895, and AC007245.  |
| HCWG412 | 1279 | 970693 | 1 - 324 | 15 - 338 |  |
| HCWG420 | 1280 | 660717 | 1 - 311 | 15 - 325 |  |
| HCWG433 | 1281 | 702441 | 1 - 476 | 15 - 490 | AA618172, AA632695, AL031681, AC004699, AC002565, AL133353, AL033403, AC004383, AC005562, and AC004128.  |
| HCWG443 | 1282 | 660568 | 1 - 228 | 15 - 242 | AA716190, AA515438, AA614340, AA618172, AA632695, AI168274, AA760672, AA174138, AA135377, AA348966, T68597, AI735455, D44625, AA260628, AA747322, HI7731, AL042425, AA809631, R98945, AW449193, AA226172, AA226173, H59461, AA468491, AA468952, T96546, AI734154, AI732760, AI124595, AA37927, AI240831, AI890794, R54247, R18870, R22698, AA551582, AC006511, AC004129, AF047825, AL031685, AC011331, AD000092, AC005086, AC002070, AL023096, AL031297, AC005495, AC005844, AC004984, AL034379, Z82173, AL034553, AL020997, AL031680, AC007686, AC008134, AL049653, AC005899, AC002044, AP001053, AP000349, AC005082, AC002994, AL031178, AL021937, AL031681, AC007790, AL049575, AC004552, AC007277, AC006501, AP001068, AI011930, AF121781, AC005609, AP000350, AL135879, AL121790, AC005280, AC005189, AL133238, AD000813, Z84466, AF001549, AC002132, AL133396, AL049844, AL035461, AL035070, AC002112, AC005620, AC006966, AL031670, AC004616, AL035703, AC009178, AL121652, AF196969, AC004079, AC001226, AF111169, AL049830, AC005003, AC005262, AB020863, Z82203, AC004098, AC004491, AP001059, AC004525, AC004682, AC009509, AP000502, AF134726, AF196972, AL133483, Z92542, AF002223, AC006160, AC004143, AF067845, and Z98304. |
| HCWG464 | 1283 | 670896 | 1 - 233 | 15 - 247 | AW020871.  |
| HCWG467 | 1284 | 861886 | 1 - 320 | 15 - 334 |  |
| HCWG476 | 1285 | 496402 | 1 - 322 | 15 - 336 |  |
| HCWG485 | 1286 | 917132 | 1 - 338 | 15 - 352 |  |
| HCWG486 | 1287 | 711312 | 1 - 459 | 15 - 473 |  |
| HCWG490 | 1288 | 960159 | 1 - 250 | 15 - 264 |  |
| HCWHA03 | 1289 | 924189 | 1 - 136 | 15 - 136 | AC006468.  |
| HCWHA09 | 1290 | 968274 | 1 - 157 | 15 - 171 | AC003689.  |
| HCWHA10 | 1291 | 961278 | 1 - 376 | 15 - 390 | AA551798, IP91611, AI933638, AA593537, AA229422, T05118, AA578832, AI801649,   |

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|--------------------|--------------|------------------|--------------------|----------------------|---|
| HCWHA55<br>HCWHA56 | 1292<br>1293 | 731770<br>734224 | 1 - 179<br>1 - 352 | 15 - 193<br>15 - 366 | <p>AA470496, T05684, AL046519, T36727, AA581525, N71619, T94072, AA583728, AA584527, AW151247, AA129272, AL041019, AL041018, AA229823, N91711, AA225100, E233338, B09155, AI355103, F31575, AA228979, AA572921, F34506, AI801563, R77715, AA550491, AA503142, R56541, AI560085, AI1196882, F02248, H86579, AI114733, AI133552, N63897, AI845934, AI206841, AL047493, AA502110, AA225028, AA502532, AI340858, H62923, AA706160, AC002470, AC004757, Z30987, U47924, AL022326, AC005962, AF126403, AF109907, AC000381, AC000061, AC005332, AC004895, U52112, AC004672, AF016898, AL031447, AC006512, AI135744, AC005486, AC005516, AC007308, AC007263, Z82215, AC003962, AL0078621, AC005846, Z83819, AL049830, AC007686, AP000045, AC006576, AC005231, AC007690, AC004477, AC006480, AC003108, AC005412, AF108083, AP000694, AC003030, AC004559, AC004797, AL022238, AP000510, U80017, AC005535, AL031295, AC005937, AL022336, AL035462, AF110325, AC001077, Z85994, AC001231, Z84487, AC005695, AB023048, AC004765, AP000695, AC005399, U95742, AL050341, AC005796, AC007216, AC004617, AC005839, AL049779, AP000501, L34635, AC005180, Z99943, AP000511, AI133500, AC004674, AL049533, Z83822, AL096702, AC005261, AC005790, AC005071, AC005335, AC007192, AC007041, AC005306, AC003963, AC006001, AC004531, AC006960, AC005934, Z98749, AC005183, AC005178, AI117342, AP000687, AC002538, AL031682, AI117694, AL034420, AL035422, AC005622, AL035405, AC012384, AC004049, AC004752, AC005004, AP000113, AL034429, U85199, AC006262, AC005091, AI121603, AC004491, AC003002, AL009172, AI133246, U85195, AI121877, AF111168, AL031680, AC007676, AI109623, AC007551, AC022517, AL023553, AP000688, AL096801, AI109627, AP001068, AI136504, M74900, AI122020, AC005088, AC002549, AI139054, AC005288, AC007556, AE000638, AL049761, AP001067, AL096717, AC006441, AC006443, AP001033, AE000659, AC000084, AP000692, AC004522, AC007790, AC005663, AC006236, L78810, AL033658, AC008078, Z84469, AF001548, AC007934, AC004647, Z97632, AI121754, AC004216, AL078638, AC005102, AL022316, Z98742, AL049835, AL078581, AF067844, AJ011930, AC005696, Z69707, AI121655, AC004785, AC006323, Z84467, AC007639, AL022322, AI035661, AL049761, AI031291, AC004976, AC006611, Z96074, AI121757, AC009721, D88268, AC004998, AC005920, AL080243, AC004832, AP000116, AI121652, AL033524, AC004235, AC006461, AC005870, AC005215, AC005886, Z98884, Z93023, AL034341, AC004084, AC003104, AL031767, AC005763, Z93017, AC006130, AC005378, AC005365, AC005913, AC005828, U82668, AP000049, AL008639, AC000689, AC007540, AC007421, U82828, AC005338, and AC000608.</p> |
|                    |              |                  |                    |                      | <p>AA192173, AA837098, AA923355, AA483125, AA461421, AA828696, T63954, AA834805, AA583978, W07032, AA494090, AI547286, N87410, AI378683, N43757, AA381665, C19058, AA450199, T28550, AI921649, AI1376100, AA826144, AW074059, AA551509, AI136904,</p>   |

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|         |      |        |         | AL564284, AA091395, AA344959, AA338642, AL079667, AA776936, AA776921, N26276,<br>AL022654, CI7838, AI820998, T25706, AL171374, AL154798, AI956124, AA009855, AW238325,<br>AI056566, AA598545, N725706, AA658235, AA659856, AI758582, N53565,<br>AL042213, AA338193, AA804828, AA360260, AW27171, AL748826, AA093453, AL742881,<br>F19258, AW021886, AA419277, AA559341, W35195, T63416, AA491284, AA665908,<br>AA365492, AA507282, R09777, AA613138, AA631638, AA679009, AW029625, AA768905,<br>AA078255, AL345121, AA767376, AA482743, AA482757, AL570138, AA364488, AW103006,<br>AA331231, AA670158, AC004106, AB006403, U89336, AC004923, AC005695, AA768905,<br>AC005746, AP000346, AL035458, AC006461, AC003112, AF205588, AL022336, AC007308,<br>AB020858, AC007298, AC001066, AC005257, AL050308, L49046, AC002310, AC007649,<br>AC003041, AL031684, AC004638, L78810, AC005358, U55184, AC006127, AC006976,<br>AF196969, AC007312, AC006039, D32063, AC005516, AP001040, AL023574, AL049757,<br>AC004000, M62424, AR025392, AF061786, AC005253, AC006077, AP000497, AC005971,<br>AP000553, AC005888, AL121915, AF109907, AC004592, Z98950, AP0000354, AL022343,<br>U92023, AC006121, AC004167, AL136295, AC005866, AL132712, AL034429, AC003065,<br>AC005033, Z68273, AC004983, AC000392, AC005480, AC004858, AC006441, AC004893,<br>AC005180, AC005599, AC006445, AL031427, Z98941, AC004125, AL024473, AL121580,<br>AC007845, AP000345, AL049830, AC008040, AC001231, AC007687, AL009031, Z99755,<br>AC002326, AF017257, AC016026, AC012083, Z84466, AC006557, AL031178, AL035460,<br>AC006312, AL031985, AC005362, AF156495, AC000387, AC006116, AL133245, AC007314,<br>AL121603, AL049795, L78833, AC004527, AC003664, AC004542, AC006120, U00481,<br>AC005482, AC004712, AL035405, AC004859, AP000134, AP000212, AC004802, U80017,<br>AC006531, AC000353, AC005023, AC007030, AF196971, L81893, AL132767, AC006479,<br>AP000135, AP000270, AL035413, AC005800, AF139813, AC002057, AC006543, AL031722,<br>AL031846, AP000356, AF165926, AB003151, Z93020, AP000031, U95740, AF044083,<br>AC006511, AL031782, AC002470, AC005926, AC006530, AC007319, U66061, AC005207,<br>AC006211, AL031680, AL121655, AL034548, AC005041, AC006544, AC005274, AC004263,<br>AL008629, AC005277, AC005225, AC011331, Z69705, AP000359, AC016027, AC000310,<br>AL117328, AC016830, AL021154, AL117694, Z98051, AC007686, AC005913, AL049758,<br>Z95400, U67817, AC005740, AL010502, AL033376, AP000032, AC008067, AC005839,<br>AL049712, AC004999, AC004159, AC005015, AL008639, AC004754, AC004929, U47924,<br>AC005921, AC004848, AC006241, AC005082, M77848, AL035684, AC006449, AL022326,<br>AP000692, AL050332, AL133448, AC003006, AL022476, AC004862, AC002492, AC004857,<br>M77849, AC006509, AP000252, and AL050341. |
| HCWHA84 | 1294 | 733421 | 1 - 306 | 15 - 320  |
| HCWHB12 | 1295 | 970688 | 1 - 306 | 15 - 380  |
| HCWHB32 | 1296 | 966508 | 1 - 411 | 15 - 425  |
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| HCWHB65 | 1297 | 711437 | 1 - 122 | 15 - 136 |  |
| HCWHB68 | 1298 | 575571 | 1 - 317 | 15 - 331 |  |
| HCWHC01 | 1299 | 849886 | 1 - 320 | 15 - 334 | AW117951, N64437, AA345333, N66776, AA508509, AA669416, AA724230, A1432270, AW439480, A1358343, AW193546, A1570822, A120502, AW243706, A1252085, R44592, Z83840, U85195, AE000658, A1010928, A1011930, AC006449, AC005089, A1022163, A1022326, A1022238, L44140, AC000353, AC006374, A1020997, A1021707, AF196969, AF117829, AC004491, AC002381, AC002400, AC005046, AC007666, AC004671, A1049830, A1031577, AC000085, AC002299, A1135744, AC005332, AC006211, A1211655, A1049874, AC004000, A1023807, AC005288, AC005826, AC004003, A1096701, AC007243, AC006312, AC006270, A1033525, AF042090, AC006379, AC006501, A1031737, AC020663, AP000509, U95740, AC006116, AC006285, AC004941, AF109907, AC005529, AC004895, A129321, AP000514, A1246003, AC006530, AC007676, AC005212, AC004678, AP000311, A1023799, A1023281, A1216538, A1031120, U52112, AC005231, A1008718, A1034421, AC003663, AC006023, A121652, A1035458, AC008126, AC005057, AC007277, AC004859, A1022720, AC000025, A109847, A113312, A1049745, AC005694, AB020868, AC002472, AC005527, AD001527, U47924, A1031668, AC002351, and A1049759.   |
| HCWHC26 | 1300 | 950719 | 1 - 420 | 15 - 434 | A1460404, AA348929, AA523824, AA503454, A1832909, AA192470, A1068626, A1436677, F19716, A1625647, A1589461, AA669251, AA504589, A1559251, N43757, C05755, AA451612, C06327, F10924, A1190911, AA446544, AA848172, A1472222, A1889781, U51696, AA338486, A1038703, AA652940, H64560, AA668639, AA744075, AA085124, A1064864, AA528519, AA074130, R78962, A1301713, A1359958, A1699134, AA243452, AW067900, R79263, A1692808, A1690698, F28576, AA347368, A121505, A1357698, H60143, AA533450, AA669416, AA181823, W05405, AW302013, N92446, A1119984, AA954936, A1568678, A1569306, A1921649, A1969436, AA837677, A1182038, AA648064, AA630352, N95554, A1679132, A1376100, A1569086, AA303845, A147197, A117750, H85382, AA834820, T11542, A1798473, AA492252, AA480784, AA528516, AA886584, A1629992, A10704059, A4443138, A1356904, A1564284, C06119, T56719, AC005288, U18396, M57427, A1008715, AC007225, AC008115, AP000503, A132777, AC006285, A121658, AC016025, AC004226, AC007240, AC004895, A134726, AC005879, AP000552, A133445, A1080243, AC005231, A1049869, U57004, AF067844, A172277, A1008582, AC002350, A1133448, AP000347, A1122020, Z83840, A1049872, A1049636, AF088219, AC003043, AC007226, AC005730, AC003969, AC005909, AC005412, A117356, AF165926, AC005048, A1050312, AC004853, AC002550, A1239318, AP000042, AC003966, A1050341, AC005527, X06123, A1109802, AF090944, AC005488, AC000353, AC007676, AC005632, AC005529, AC004019, AC006449, A1021579, A1035460, A109653, AC000025, A121578, AC007546, A1006996, L49046, AP000496, AC006359, A1021368, AP000497, Z69918, AC004813, AC003013, AF015723, AC002316, AF114156, AC006211, A1009174, A1021940, AC002543, X61109, AP01138, Z99716, Z97876, |

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|         |      |        |         | AL031053, U95740, U91323, AL132987, AL034548, AC005332, AC004848, AL096791, AC005783, AL020995, AC004884, AC004534, AC007242, AC005726, AC006538, AC002133, AC005324, AC005414, AC005144, AC001229, AC000379, AL031733, AC005057, Z99774, AL034375, Z93930, AP000431, AC004035, AC005362, AP000704, AL1246003, AC005821, AC005694, U62317, AC002312, AL078581, L76568, AC005793, AC005370, AC020663, AC005086, Z15025, AL078584, AL009181, AL035608, AC004230, AC007324, AC005808, AC005944, AL034343, AC007731, AC002558, AC006241, AP000355, Z95114, AP000555, AC005500, AL049776, U95742, AF124552, AF196779, AC005019, AL031846, AC007666, AL109799, U02050, L78833, AC005866, AB023052, Z98950, AC008079, AC005745, AP000289, AF196969, AP000536, Y18000, Z98752, AC004933, AC005523, AC005353, AC007216, AF196969, AP000562, Z93023, AL049829, AL031985, AC000052, AC006138, AC004522, AC005519, AL132992, AC004883, AL121825, AP000110, AC004814, AC004152, D16583, AC004076, AC004098, AL109627, AC002310, AC005913, AF053356, AC005399, AP000356, AC004695, AC006596, AC006126, Z99754, AC006162, AC004382, AC005209, AC007129, AF107885, AF019664, AC005069, Z93241, AC002526, Z84718, AC008101, AF032456, AC005668, AL078604, AL022311, AC002470, AL096701, AC004485, X77531, AC004466, AC004988, AC005725, AC004675, M13254, AL031602, AC004254, AC002395, AC004678, Z84476, S78429, Z98200, and AC005772. |
|         |      |        |         | AC004983.  |
|         |      |        |         | AL035414.  |
|         |      |        |         | AL125214, H78331, N63836, and AA702824.  |
|         |      |        |         | AA019537, D58283, D80195, D80391, D51423, D59619, D80210, D51799, D80240, D80253, D80227, D80196, D80188, T03269, D80219, D59927, D80043, D80212, D81030, D80038, D80193, D80366, D80022, D59889, D80166, D80378, D59859, D59275, D80269, C14429, C14014, D80045, C75259, D80168, D80134, D59502, F13647, D80949, C14227, D59743, D80241, D59610, D81111, D58253, D51079, AW178775, AW377671, AW352158, D10597, AW360844, AW178971, AW177714, AW352171, AW179007, AW178754, AW179024, AW179020, AW177456, AW377676, AW179012, AW352174, D80290, A1557774, T1051, AW178986, AA033512, AA285331, H67858, A1525907, A62300, A62298, X67155, A67220, A84916, A25909, D26022, D34614, A1132110, A78862, D89785, AF025027, Y17188, D88547, X68127, I82448, A85396, AR066482, AB010386, AB012117, X93549, A85477, U87250, A86792, I19525, A44171, AF135125, AR064240, Z33749, S69292, I18371, X89963, A45601, S78799, and AB033111.   |
| HCWHD23 | 1307 | 934917 | 1 - 279 | AA432091, AC005899, AL050308, AC007371, AL031005, AC005089, AC008055, AC004922, AC004148, AC003982, AC005412, AC002365, and AL031311   |
| HCWHD68 | 1308 | 690359 | 1 - 394 | AC005591.  |

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|--------------------|------|--------|---------|----------|---|
| HCWHF62<br>HCWHF85 | 1309 | 582472 | 1 - 429 | 15 - 443 | H66222, R16430, and T99465  |
|                    | 1310 | 746745 | 1 - 305 | 15 - 319 | H95605, T05617, A1630894, AA587113, AA456042, AA430652, A1918575, AL048479, AW316599, A1866377, R01574, AA223907, A1633386, AA830070, A1567391, AA021354, F30586, AA054170, A1653776, AA515129, A1336398, AW337805, A1967114, A1962030, N04807, H97510, F35689, A1905408, AW238212, AA018617, A4838192, A1921765, AA214227, AW082104, AL096701, AC005280, AC016027, AC016830, AF047825, Z584669, AF056405, AL031651, AL035458, AC004150, AL031447, AP000962, AC004983, AC000024, D87011, AF124523, AC004821, AD000684, AC006121, AC002394, AC004253, AC005482, AL109798, AL132774, AC006130, Z68165, AL049766, AC002425, AL132987, Z97056, AC003003, AL035400, AC0031681, AL034420, AC006512, Z82193, AL033527, AC004477, AC007308, AL049713, AC005881, AC002551, AL031577, AP000503, AC005736, AC007070, AF165926, AC007225, AF084941, AC002511, AL031659, AC005874, AF134471, AF134726, AC005011, AC006441, AC006552, AC007536, AR036572, U91328, Z85987, AC004605, AC004259, Y11107, AL008707, AC006946, AC004600, AL031685, AL024498, AC007191, AF196972, AC006241, AC006023, AF064861, AC004554, AC006536, AC000052, AL031680, AC003982, AC002470, AC002300, AC005410, AL049777, AC004019, Z85986, AF111170, AC004938, Z94801, AL023575, AC005089, AL022336, AC005048, AC005837, U91323, AL096712, AC004031, AL049540, AL049765, AC000120, Z98051, AL049760, AL031431, AC004616, AC006312, U95090, AC004386, AC002314, AL008718, AC005368, Z75890, AC006443, AL110292, AF109907, AC003043, AC007381, Z98200, AL031596, AC005037, AF048729, AF001550, AC007731, AC005726, AC005500, AC004858, AC003108, AF118808, AC004491, AF015416, AC006487, AC005225, AP000555, AC005856, AC006115, AC007052, AP000365, AL109758, AC005091, AC002430, AC000003, AC0005920, AP000303, AC004851, AC004878, L17395, AL011930, AC006509, Z73417, AC006338, and AC0020663. |
| HCWHJ15<br>HCWHJ25 | 1311 | 968379 | 1 - 129 | 15 - 143 | AC009248  |
|                    | 1312 | 686712 | 1 - 340 | 15 - 354 | AA488432, AA4879225, AA458804, AA364315, A1744739, AL041706, AL053644, AA362917, AA52875, AA720702, F28122, H57509, AA654908, AA146625, F33121, AA603062, AA888870, AL051230, A1056964, R09168, R77905, A1460390, AC007387, U95090, AL109654, AL135783, S41998, AC006536, AC007057, AL049872, AP000556, AC011592, AC000451, AP000552, Z85986, AF109907, AP000275, AC002350, AP000105, AP000037, AC006130, AC005694, AC006057, AC004858, AL117338, AC005527, AC004659, AL109984, AC000085, AC006121, AC008134, AL021394, AL031005, AL110502, AC004531, AL035458, L44140, AC005512, AP000692, AC000052, AC007537, AC007363, AC006285, AC006502, AL034451, AC004601, AL135879, AL121790, AC005529, AC002289, AC006277, AP000307, AL022329, AL094702, AC002288, AL133448, AC011587, AC002448, AP000115, AL022316, AL020993, AC007011, AL049797, AC007536, AL023320, AL121653, AL021878, AC005324, AL13382, AF042090, AC001226, AC005330, AL096701, AL021453, AC008064, AL022726, AC006255, AL050323,  |

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| HCWH48 | 1313 | 721816 | 1 - 340 | 15 - 354 | AL049843, AC0006512, AL050318, AF061779, AL022238, AP000114, and AP000046.  |
| HCWH53 | 1314 | 693313 | 1 - 411 | 15 - 425 | AC008101, AC008079, AC016027, and AC016810<br>AA344959, AA831388, AA526193, AW408063, AA483043, AA365571, AA505700, AA302952,<br>AA301813, AL249688, W07122, T41134, AA327572, H12972, AA063426, AA744025, AA516225,<br>AA341120, AP963720, AL355206, R66407, AW019904, AL754105, AA702206, AL198376,<br>AA227162, H59856, AA720746, AU038304, AA610491, AA384039, AA847029, AA737150,<br>AL754567, AL569100, AW192599, AC0368329, AL755214, AL044400, AL708005,<br>AL061313, AL928790, AA365520, AL569510, AL244356, AL080307, AL678392, AL624698,<br>AA594725, AL281431, AW131356, AA804993, AA828704, AL912322, AA579184, AL747889,<br>NS4179, AA298387, H65439, AL886365, AA526755, AW265656, AL021317, NS5476, D58782,<br>AA364315, AA757743, AL860020, AA838479, T57604, H72666, C05999, AA383477, AL1889794,<br>AA633175, AL120343, AL049795, AC005399, AC004983, AL121653, AL021808, AC005225,<br>Z69921, AC004797, AL132987, AC006459, AP000214, U02057, AL035071, AL049776,<br>AL033392, AF165926, AC007216, AF111168, AC004910, AC005104, AL022320, AL008630,<br>AC005252, AF109907, AC005089, D83737, AL121657, AL023803, AC004460, AL008630,<br>AC004890, AC003101, AC002425, AC002377, AC004470, AL031846, AL031296, AC005231,<br>AC005874, AF134471, AC007738, AC000353, AP000255, AC006312, AF129756, AC020663,<br>AP000354, AC007227, AL049766, AC004400, AF001549, AP000105, AP000037, AP000031,<br>AC004854, AF196969, AC005071, AC007371, AL021158, AC004972, AC006538, AC006047,<br>AC002523, M87914, AC005081, AP000135, U89337, Z93244, AC005772, AC006041, AC005899,<br>M87918, AL022238, AP000692, AC004496, AC003108, Z98050, L78833, AF026069, AP000555,<br>AB017602, AC011362, AC006077, AL031729, Z99128, AP000689, AL031255, AL080243,<br>AF019413, U57007, AL023807, AC004019, AC006111, AL050318, AC005520, AC004463,<br>AC006285, AC002400, AL078639, AC007285, AC007225, AC004259, AC007546, AP000513,<br>AC004812, AC004600, AL034420, AC016025, AF196779, Z97055, AP000509, AP0000251,<br>AL034429, AC004216, Z99496, AC006271, AL031005, AC005796, AB015355, AL109759,<br>AC004605, AC004929, AF045555, AC004859, AL049761, AC004841, AC004821, AC006953,<br>AC007263, AL035415, AC007537, AC000052, AL049709, AC005393, AC005839, AC002553,<br>U63630, AC007899, AB023049, AF053356, AC004770, Z93017, AP000141, AP0000389,<br>AC004408, AC007308, U07563, AC004066, AL035072, AL121603, AL022125, AC006160,<br>AC005588, AC004585, AC004477, AL034417, AC002126, AL035681, AL121655, AC005768,<br>AC002470, AL035587, AL035448, Z92540, AL023574, AC002997, U73638, AC004973, Z83826,<br>AC002115, AP000512, AC006468, AC002404, AC003070, U66060, AP000211, AP000133,<br>AP000030, U02058, U66061, AC007160, AC003104, AC007533, AC002542, AL109758, Z82176,<br>AL008721, AL049760, D26067, AC007064, AL121825, AL076768, AC007062,<br>AP000009, AC006138, AC004802, AP000695, L78810, AC006059, AP000688, AL031428,<br>AC004195, AC007666, AF207550, U91326, AP000350, AC005940, AC004242, AC005747, |

| HCWHJ55 | 1315 | 861884 | 1 - 719 | 15 - 733 | AC006515, AF015155, Z98048, AP000556, AF067844, AC005668, AC004211, AP000275, AL035659, AL035405, AC005146, AC005170, AL034401, AC006013, AC002985, AC004383, AL021977, AL0409713, AL136504, AC005207, AL133485, AC005539, AC004858, AC004771, AC004918, AL049036, and AC005837.   |
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|         |      |        |         |          | AL076616, AL045033, N48230, AL138265, AL130901, AL1053790, AL042853, AL1355206, AA581903, AA722372, AP963720, AA846876, AL119691, AA584201, AL175116, AA440545, AL1374809, AW102955, AA468022, AP951863, AW265393, AL046409, AA877817, AL457397, AL284640, AA126035, AL046025, AW088846, AL732865, AW274349, AA507824, AL042420, AL040921, AW008212, AL035547, AL708009, AA468131, AL1357901, AA703887, AL042420, AL281881, AL270117, F28204, AL312309, AA812139, H08791, AA584195, AA521399, AA623002, AA521323, AL145157, AA515829, AW163293, AL134443, AW021583, AA010491, AA501809, AW169151, AA837677, AW327868, AP956124, AA493471, AL871722, AA491284, AL204304, AL801482, AA490183, AA480772, AW238278, AA311319, AA587604, AP696962, AA515549, AL037683, AA610271, AA126051, AL254316, N94311, AW406447, AL431303, AL133164, AA349366, AW303196, AW265385, AW407578, AA657918, AL445582, AA503473, AL041690, AA478155, AA599480, AL038072, AL038705, AW301350, AW304584, AW270382, AW193265, AW103758, AL1368256, AW439558, AL471481, AL1368745, AL044940, AW062682, AA514854, AL046457, AW028392, AW131249, AL744188, AW020340, AA491814, AA503475, AL138455, AL860020, AA846760, AA703820, N92756, AL133262, AL1865905, AL207401, AL799642, AL267818, AL625244, AA569471, AL307608, AP69436, AL249997, AA576336, AW419262, M77974, AL282832, AL370074, AW270270, AA719292, AW410400, AA572713, AA579366, AL119984, AL559705, AA533333, AA908687, AA533036, AA523837, AL580652, AL1376100, AP921649, AL890348, AA483223, AL471543, AL1053606, AL745325, AL640409, AA631507, AW276817, AL613280, AA515909, NS3150, AL608771, AA613203, AL754955, AA531372, AA665021, AL370094, AA349854, T41259, AL564284, AW023672, AA828704, AA502104, AL537955, AL345654, AL538433, AL568678, AA488395, AL048626, AL251436, AW302903, AW302909, AA584082, AL017415, AL133852, AA583955, AA513850, AL119649, AW276827, AL120483, AL370977, AA584145, AA079462, AL061334, AA679514, AL630362, AW072923, AA470969, AA947360, AW302013, AW088020, AA522942, AA714453, AA683258, AL792287, AA781975, AW069769, AA558656, N76673, AL912322, AL044555, AC005332, AC005295, AC004929, U911321, AC008115, AC006312, AL045555, AC002565, AC007225, AC007226, AC005529, AC003007, AC005057, AC002476, AL121603, AP000112, AC005072, AL109802, AC007191, AC002045, U63721, AC005696, AL049776, AL121655, U78027, AC007151, AP000084, AP000113, AC007666, AC005412, AC002470, Z98044, AC006449, AC004967, AP038458, Z99716, AL049712, AL022165, AC004167, AC006480, AC004099, U95472, AL031311, AC005089, AC007685, AC006111, AL006752, AL132712, AC005911, U47924, Z97054, AC005015, AL096701, AC005291, AC006130. |



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| AC002350, AC005527, AC004019, AC007216, AC005821, AC006071, AL031390, AC006509, AC006013, Z98304, AL031432, AC005694, AC003957, AL139054, AC004987, AC006581, AP000355, AF111168, AC005899, AC002300, Z93241, AC005632, AP000299, AC005488, AC005544, AC005225, AF196969, U62293, AC006241, AL035659, AC002425, AL031577, AC005180, AC003003, AC005859, AC007792, Z84480, AC006160, AC005071, AC005971, AF134726, AL031681, AC007021, AC000052, AC005231, AL031587, AC007066, AC003950, AC020663, Z83844, AC004381, AL049709, AC006205, AC006251, AC005193, AL022163, AC004878, AC003070, AP000555, AC006511, AC002301, AC003982, AC007686, AC004447, AP000044, AC002059, AL008721, AL003147, AC004755, AC009516, AC005722, AC005562, AL023575, AL133448, AC003101, AC0035681, AC002302, AL031659, AP000553, Z77249, AL022315, AC007999, AC006064, AC002044, AL022322, AL080243, AC005736, AL031662, AC006538, AC007041, AC004475, AL022302, AC005844, AC008372, AC005839, AL109623, AC007676, AC000025, AL049780, AC004638, AC007541, AC005565, AC005940, Z99495, AL033376, AC003108, AC004686, AL031680, AC004966, AL024508, AC006275, AC004854, AL049569, AL024507, AC003029, AC005229, AF129756, Z83840, AC004895, AL049795, AC009178, AB023051, AL117258, AL021939, AC005901, U91323, AC007731, AL049843, AL049750, AB023049, AC005531, AP000952, AC004584, U66059, AC005500, AC007546, AL133245, Z83822, Z93930, AC005037, AC008040, AL022721, AC002992, AC004834, AC006050, AC002544, AC005914, AC002543, AC004876, AC005944, AC004832, AC002070, AC005355, AL109984, AC005081, AC016025, AC002312, AC009509, AC006211, Z98051, AC002400, AP000557, Z93020, AP000692, AL031295, AC005065, AL031120, AL121658, AC005212, AC006077, AC007878, AC007192, AL121748, AC003684, AC007688, AC005288, AP000356, AL031602, L78810, AL049829, Z84469, AC003681, Z98950, U91326, AC004815, AC007565, AL135744, AC004975, Z81369, AC005041, AL031276, AC003983, and AP000512, AL679782, AP63720, AW006755, AL284609, AL138265, AL133164, AL134443, AW265385, AL043719, AL137099, AW088616, AA482711, AA720702, AW419262, AA581903, AW303196, AW327868, AF754955, AL044858, AW193265, AW274349, AW301350, AL119691, AL130211, AL431303, AA469451, AL457397, AP620500, AL061334, AA680243, AL110770, AL1888518, AL042753, AL200051, AL281881, AW265393, AW162049, AL027017, AL029531, AA847499, AL792287, AW166815, AL860020, AL165988, AW085780, AL053672, AW276827, AW023672, AL567674, AW302013, AW104748, AL038785, AL139850, AL610159, AA587604, AL610920, AA831375, AL038474, AW103758, AL138455, AL708009, AW080134, AL801482, AL1561060, F29989, AL345681, AL345675, AL376100, AW069227, AA503258, AL921649, AW338086, AL865905, AL613280, AW410400, AL619997, AL754658, AW129001, AW439558, AL421841, AA713815, AL814735, AW438643, AL537955, AL697208, AL745325, AL345654, AA523843, AL246119, AA665330, AL890348, AA490183, AP004894, AL732120, AL471481, AW269488, |      |        |         |          |
| HCWH175   | 1316 | 786019 | 1 - 398 | 15 - 412 |

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| AA521323, AI358343, AA747276, AI783494, AA984708, AI355206, AA503015, N27584, AI044940, AW261871, AI696793, AI801600, AI471572, AA526787, AI251436, AI669453, AI699503, AA538472, AI623720, AI298710, AW079135, AI048925, AA079223, AA521399, AW408717, AI568678, AI085719, AI143242, AI079645, C05986, AA584201, AI809023, AI053790, U51696, AI718446, AI755214, AI917271, AI251002, AI357551, AI951889, AA877817, AI379719, AI289067, AI799042, AW062724, AW265009, AI037683, AI821271, AI020092, AI699648, AI299050, AI754567, AA491284, AA669840, AI042420, AI610376, AI733856, AA623002, AI951928, AI357288, AA846876, AI754105, AI341664, AI859742, AI070882, AI344844, AI956131, AI890918, AI623696, AA806796, AI571512, AI0406205, AI301549, AI046898, AA714453, AI040130, AI307608, AI885572, AI634187, AI688846, AI041690, AW088202, C05755, AI589230, AW339687, AI919265, N35896, AW304584, W79504, AI793432, AA661948, AI037850, AA525190, AA513141, AI679045, AI307201, AA164251, AW089322, AA630362, AA468022, AW271904, AA908687, AI370878, AW072587, H71429, AA584148, AA613227, AI133102, AA493708, AI564185, AI475569, AW276817, AI375710, AA768905, AI039790, AA653618, AI434695, AI286356, AI340453, AF060568, AC001234, AI109758, AF038458, AI096701, S75201, AC007919, AI078581, AF015160, AF134726, AC004650, AF015148, AI035552, D83989, I51997, AF015167, U12584, U12580, AC007934, AI031670, X54180, AF015151, U57007, AI122003, U02531, AC007051, AF015156, AI132712, AC005484, AP000503, U18395, AF015158, AF077038, M37551, AP000114, AF015152, U66059, AR036572, U91328, U18396, AI022721, AI121652, AC003029, U18393, AF015149, U12582, AC005907, AC005529, AI021937, AI136295, U57009, U18391, U18394, U11309, AI031286, AC007786, Z84814, U60660, X55925, AC004884, AF015157, Z94801, U02532, X55926, X53550, AI132800, AC005535, X75335, U57005, U67221, AC005696, AC008101, U57006, AI031681, U18398, AC002463, AC006548, U18392, AC016830, AI031584, X74558, AC007298, AC005215, AI031777, AI049552, X54175, AI031228, AP000513, AC004895, AC007043, AC004832, AC006277, AI021155, AP000497, X54181, AP000557, X54178, AI035587, AI022147, AI17258, AC006138, AI121694, AC007731, AI035072, AC005500, U75931, AF001552, X55924, AI035413, AC005523, AF015166, AF015153, AC007549, AF015147, U57004, AC004945, AC005768, AC006450, AC002038, AI050318, U18399, X54176, Z83840, AC005406, X54177, AC006120, Y18000, AC006480, AI049829, U18387, AC000353, AC004975, AC006026, U03115, Z95116, AI078463, AI023882, AC004408, U57008, X55932, AI133371, AC006205, AI008728, U80017, U78833, AC005632, Z49816, AI008718, AP000244, AC005482, AI024509, X55931, AI035411, AC005529, AC004019, AC002531, AC005387, AI031050, AI110502, AC005548, AC004963, AC004491, AC006292, AC005839, AC004637, AC007326, U47924, AC004381, AI049766, M87919, AC004638, AC022517, AF015170, AC002430, AC007488, AC007510, Z97183, AC007193, AI211781, AI023284, AB023052, AP000359, AC004799, AC006203, AF190465, AC007384, AC004152, AC005046, AC007514, AC004592, AI022323, |  |  |  |  |
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|----------|------|--------|---------|----------|--|
|          |      |        |         |          | AC002476, AL121603, U18390, Z27650, S56773, AC004940, AL049562, AL049845, U95742, AL034420, AL031432, AC005722, AC002452, AP001053, AC004987, X54179, AC000118, AC006285, AC006512, AC002994, AC005007, AC005031, Z86090, AC005245, AC018769, AL008726, AC004857, AP000238, AL021397, Z98046, AP000459, AC000159, L35531, AL049745, AC007216, U50871, AC004000, AP000143, Z97181, AP000692, AC010722, AC005699, U91326, AL031224, AC004941, AC006001, AC006251, AC006486, AC013078, AP000134, AP000212, AP000030, AL049544, AL008709, Z74696, AC007099, AC002041, AC005563, and AL021977.  |
| HCWHL091 | 1317 | 674157 | 1 - 400 | 15 - 414 | AC005605, AC004908, and AC005604.  |
| HCWHL11  | 1318 | 967057 | 1 - 403 | 15 - 417 |  |
| HCWHL36  | 1319 | 465250 | 1 - 481 | 15 - 495 | W72636, and AA737484.  |
| HCWHL42  | 1320 | 959894 | 1 - 422 | 15 - 436 | AI280574, AI554725, AI436330, AA477517, AA533054, AA213590, AW150387, AA659832, AL040374, T78072, AA663074, AI049931, AC008127, AC013417, AC005726, AC005488, AP000008, AP000704, AC006486, AL022329, AL13396, AF031078, AC006014, AF030876, U73167, U90094, AL008635, AC005924, AL031255, AL035697, AL109758, AC004477, AC007687, Z97053, AC004797, AL031597, AC003665, AC005873, Z92546, Z83844, AL031284, AC002301, AC007899, AL121654, AL133448, AC000035, AC005383, AC003962, AC000044, AL035079, AC005237, AC000034, AC004448, AP000353, AC002425, AC006143, Z82190, AL135783, Z84572, AC008055, AF205588, AC002352, AC004813, AF179633, AL022326, and AC005529. |
| HCWHL73  | 1321 | 960097 | 1 - 539 | 15 - 553 | AA219247.  |
| HCWHL89  | 1322 | 754087 | 1 - 127 | 15 - 141 |  |
| HCWHLN05 | 1323 | 849885 | 1 - 363 | 15 - 377 |  |
| HCWHLN28 | 1324 | 529654 | 1 - 318 | 15 - 332 |  |
| HCWHL038 | 1325 | 573533 | 1 - 413 | 15 - 427 |  |
| HCWHL045 | 1326 | 717807 | 1 - 436 | 15 - 450 |  |
| HCWHL078 | 1327 | 960180 | 1 - 337 | 15 - 351 |  |
| HCWHL093 | 1328 | 924109 | 1 - 381 | 15 - 395 | AL121852.  |
| HCWHL096 | 1329 | 935483 | 1 - 288 | 15 - 302 | AA729468, R10107, W89152, AA383903, W88647, AI910620, AI241829, AA348884, AI473501, AI538106, N779886, W67486, AW198103, H54411, AA320684, N73349, W67485, AI532089, H67251, R99079, AI362519, AA054355, AA583390, AI654404, AA831624, H71523, T83076, R09897, AI149238, AA767864, T95920, AI032114, AI061577, AA045892, AA491889, R34073, AI884375, AI267544, AA515929, W87421, AA297443, AA077228, AI472070, AI479070, AI287788, AA831638, AI824558, AA655007, H12182, AI004220, AA100325, AI2175725, AA651647, AW338697, F07225, AI523875, T89763, AI808173, AI125633, AA582060, AA745570, AA311509, AA669734, AI559178, AA547979, AW051628, AA176125, AA363250,    |

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| AA348602, W96277, AA020873, AA193241, AA702222, AA701593, AA451720, A0192614, AW247389, AW131101, H65880, AF0304370, AA404276, AA744496, R032526, A1898452, AC006430, U075620, AF030453, Z83822, AF196970, AC006463, AC006117, AC002126, AC006071, AC005600, Z83840, AC006312, AC005544, Z95116, AC005081, AL021155, AC004197, AL035659, AP000692, AC005088, AC004143, AB003151, AC006277, AC006674, AC005768, AC006213, AL109758, AL021878, AC005355, AC004408, AC002470, AL031587, AC002565, AL096791, Z93017, AP000695, AC005095, AL117354, AC006137, AL031983, AL121658, AC007308, AF190631, AC004196, AC004560, AC005183, Z93022, AL023553, AC013417, AC007656, AL135783, AC005015, AF111169, AC022517, AP000696, AC004821, AL122023, AC005932, Z68162, Z73900, AB015355, AF001548, AC004587, AC005102, AC004890, AC006987, Z98304, AC005911, AC008039, AC005291, U96409, U91321, U62293, U63721, AC002477, AP000689, AL078477, AC005730, AF127034, AL121653, AC004671, AL049760, AC006039, AF129756, AL031729, AC004832, AL096701, AD001527, AL035683, AC005529, AP000247, AB016243, AC005057, AL049709, AC005067, AL023807, AL109952, AL049872, AC005821, AC005367, AF045555, AC005519, AL031311, AC003003, AC002350, AF064477, AP000130, AP000208, AC003695, AP000688, AC007993, K03556, M15365, AL022328, AC000603, AL035457, AL133382, Z46773, AC007327, AC004491, AC004534, AC004854, AP000503, AP000690, AP000704, AP000338, Z98950, AC002349, AL137100, AC004967, AC004991, AC005288, AC012384, AC002454, AC005023, AL135745, AC005356, AF070718, AP000556, AP000557, AP000216, AF009251, AC003104, AL031296, AC002542, AC004876, AC004217, AC006077, AC003663, U09367, AC006948, AF111168, AP000313, M33320, AP000036, AC002097, AL022728, AF072711, and AC005782. |
| AA203553, AA004349, AA678315, AA507179, R08030, R08080, and AW366361.  |
| AA702353.  |
| AC007199.  |
| AL350663, AL016289, AL037105, R59942, AA019396, AP000017, and AP000158.  |
| AL110456, and AA326002.  |
| H98124.  |
| AC005752.  |
| AW207505.  |

| HCWHS13 | 1344 | 657230 | 1 - 256 | 15 - 270   |
|---------|------|--------|---------|--|
|         |      |        |         | <p> AL1368745, N43757, AA593060, AA658093, A1547286, AW088202, AA365347, AA501600, AW080134, M86058, C18360, C18357, AA450199, AA344959, AA13999, AA658235, A1921649, N11557, AA377730, A1376100, A1372413, AW074059, A1356904, A1564284, AA723017, AA856981, AA653964, F29989, AL042213, AA634855, C19058, AA828680, A3338642, AA713815, A1079667, A1205126, AA594725, AA301813, A1453383, A1889781, A1929531, AA828704, C17838, A1679782, A1120674, A1620949, AW020340, AA715362, AA384502, AL119391, A1216799, AA502103, AA634227, AA482711, A1962050, A0956124, AA229785, A1251002, U51696, A1567674, AA025083, AA515051, AW029038, AW029624, AA642060, A166815, AW265294, A1313034, A1558229, A1904894, N53150, AA635368, AA310158, A1917744, AA826303, AA428414, A1339850, A1064952, F31204, A1921673, AA829106, AA297744, A1133636, A1608626, A1890923, AA503947, A138265, AW406755, AA669416, AA365571, A1038785, F37286, A1365988, AA440836, A1821028, A1821279, AA228471, AA419263, AA581903, AA886584, A1669003, AW339687, A1922840, AA469451, AA318652, A1635272, A1880365, A1744188, A1890928, A1250284, A1049722, A1537955, AA515128, A1890570, AA804828, A1017024, AA584201, AA350859, C06458, A1446404, AA551509, AA483068, A1918421, AA486680, AA484059, W60516, T49751, AA345333, A1625244, AW173651, A1610159, A1041368, A1418391, A1282832, AA302308, AA649642, AA598824, AW338500, T28550, AA085124, AA493768, AA372478, A1193007, F36273, AA320748, A1357551, A1341337, A1042853, AW084253, A1284640, AA515435, A1041412, AW440976, A1940546, AW339568, A1859742, AW236342, AA362395, AA626678, AW175641, W07032, AA320113, A1963600, AA465321, A1143242, AA663634, F28576, AA639250, N66026, T29180, A1039309, A1298710, AA558697, A1305547, A1569086, A1922654, AW169151, AA558857, F23274, AA309841, F34826, A1471464, AW079659, F19258, H64777, T06556, AW419118, AA649251, AA148489, A1471487, AA304456, A1039185, A1053672, AW406659, AA634146, AA127191, A1046409, AA502963, A1064864, AA503284, A1471481, AA678616, H78195, A133723, A1471572, AA177061, A1410400, A1000311, A10007628, A1000049, A1031846, A1002067, A1001040, A1000152, U14718, A1004853, A1005565, A1004592, U14719, A1017257, A1005886, U14715, U14717, A121603, A1031782, Z86062, A1049830, A133246, U14716, U14713, U14711, U14712, U14698, A1008055, A1111168, A1006241, A1010197, A1002410, A1004647, A1229042, A1006597, A1031655, A1004796, A1002073, A1005291, A1078603, Z99755, A1900193, A1000497, A1006511, A1002432, U14706, A1004154, A1002542, Z86061, A1003002, Z99916, A1109941, A1000117, A1000334, A1000954, A1005589, A10015160, A1005521, A1003084, A1005166, A1007077, A1004804, M62424, A10025392, X13794, A1005099, A1007536, A1064863, A1000116, A1000011, A1003985, A1008126, A1004771, A1006221, S75337, A1007870, A1004981, A1007392, A1005888, A1004949, A1021918, A1132718, A1006384, A1007385, A1049613, A1002485, U95740, A1006561, A1021940, A1004638, A1109799, A1002124, A1001172, A1000519, </p> |

|         |      |        |          |  |
|---------|------|--------|----------|--|
|         |      |        |          | AB023056, AL031120, AC004750, L29292, AC004741, AC004915, AC004408, AP000230, AP000144, AC004677, AF126403, AF015163, AC006972, AL031427, AC003101, AL040942, AL021878, AC007320, AC004941, AF165926, AL096771, AL023877, AC003001, AF131217, Z68328, AC004066, AC004027, AP00050, X67277, AL002302, AP000359, AC004808, Z84719, U47924, AF109076, AC004785, AC003088, AC005619, AL109984, Z74696, AC005154, AF015167, Z92540, AL034549, AB019438, AF015171, AP000566, AL031653, AF109907, AC000392, Z82203, AL009177, AL132987, A91686, AC004662, AC005207, AL031733, AL049633, AP000938, AL121694, AC002492, AC009731, AL121652, AF029308, AC005156, AP000352, AC006518, AC004168, AC005944, AF015170, AL049777, AC005593, AC007317, AL022163, AF045555, AC004837, AC005081, AC005040, AL135746, AC005694, AF067844, AC004593, AC005144, AC002462, Z98941, AC005399, AC007687, AC004019, AF030876, Z97196, U14701, U14695, U14705, AL031905, AL031121, AC002456, Z73986, AC007319, AC005194, AC004542, AC007684, U14691, U14699, U14685, U14686, U14690, U14710, AL023281, AL050305, AC009263, Y18000, AP000966, AP000695, AC006374, AL133355, AP000555, AC006312, AC005599, AL035417, AC004884, AC004712, AB020868, AL022395, AC002350, AC005041, AC006480, AP000350, AC000062, AP000356, Z95113, AC033381, AF015162, AC007228, Z68881, AC005703, AC004228, AL049589, AL035427, AC005046, AC005043, AP000014, AC004760, U12583, AC003015, Z84474, AC005251, AC005412, AC007917, AL008706, AC005722, AC007114, AC005484, AC003998, AC006512, and AL033525. |
|         |      |        | 15 - 323 |  |
| HCWHS28 | 1345 | 675051 | 1 - 309  | AC004854.  |
| HCWHS77 | 1346 | 861875 | 1 - 337  |  |
| HCWHT50 | 1347 | 527542 | 1 - 475  |  |
| HCWHT56 | 1348 | 849979 | 1 - 353  | AC004542, AL049694, AC006112, AL121694, and Z84474.  |
| HCWHT59 | 1349 | 924105 | 1 - 320  |  |
| HCWHU22 | 1350 | 849878 | 1 - 330  | AB033063, and AR065869.  |
| HCWHU30 | 1351 | 974485 | 1 - 392  | N88601, N84855, AA095359, H58760, AA096046, N89520, N83168, AA247964, N83992, AA247827, N83991, N88782, N84048, AA093224, AA096066, AA095641, N84830, N84718, N86694, N87989, AA471338, N55608, N84712, N83993, N88518, N84829, N88496, N87898, AF102850, AF039698, AR066487, AF103726, S78798, U48696, AF045432, U39066, AF032922, and A1243486.  |
| HCWHU47 | 1352 | 720340 | 1 - 306  | AL1075000, AL049869, AL109623, AC005680, AC004685, AC005233, AC004014, AC000097, AC006547, AC005187, AC007021, and AL035665.   |
| HCWHU52 | 1353 | 726054 | 1 - 163  |  |
| HCWHU54 | 1354 | 727314 | 1 - 131  |  |
| HCWHU58 | 1355 | 736052 | 1 - 309  |  |
| HCWHV11 | 1356 | 964996 | 1 - 254  | AW243834, A1014798, AL132671, A1590042, and A1679747.  |

|         |      |        |         |          |  |
|---------|------|--------|---------|----------|--|
| HCWHV18 | 1357 | 466511 | 1 - 329 | 15 - 343 | T80701, and AL034551.  |
| HCWHV28 | 1358 | 686710 | 1 - 522 | 15 - 536 |  |
| HCWHV33 | 1359 | 702437 | 1 - 243 | 15 - 257 |  |
| HCWHV41 | 1360 | 960157 | 1 - 331 | 15 - 345 |  |
|         |      |        |         |          | R86114, AL383589, R56101, AL801563, AL500151, AL686422, AL547110, AA338474, AL754257, AL580480, AL744817, AL044701, AA862218, AL553670, AA9386474, R26871, AL797998, AA633804, AW265468, AL002786, NS2274, AL446424, AA493808, AL057560, AL445699, AL631299, AW021674, R22196, AW082556, AL702049, AW148821, AW410844, AL023329, AC005037, AL034343, AL049776, AC005914, AC002470, AC005666, AC002369, AC005874, AL134471, AL021939, AL109865, AL034420, AL031287, AC006130, AC007051, AC007919, AC005537, AL109628, AL078638, AC009241, AC006013, AL009179, AC005776, Z95114, AC004139, AL034371, Z97181, Z85987, AC005747, AC007358, AC002310, AL034351, AC005562, AC012085, AL009181, AC004963, AC007376, AC004996, AC006237, AC006006, AF111169, AC006539, Z75887, Z94802, AC007541, AL133448, AL133163, AL132641, AL021918, AC004859, AL008710, AC006966, AC004812, AP000402, Z83822, AC006014, AL121756, AF031078, AC005701, AL121652, D87675, AL035425, AL035461, AL121603, AF030876, AL031767, AL035249, U78027, AC002352, AL009172, AP001054, AL135744, AC005503, AC000372, AL035422, AL003147, AC004675, AC005763, AC005361, Z99570, AC002477, AC004525, AC003042, AC006511, AL031584, AL021808, AF088219, AC005921, AC004099, AC007533, AC002395, Z69890, AC004686, AL049839, AC005602, AC000088, AC003965, AC005488, AC000071, AC004517, AC004858, AC005082, AC002559, AC0040479, AP000501, Z82901, AC004455, AC005969, AL132992, AF165926, AC000405, AC004854, AL109963, AL034423, AL031575, AL050336, AL022476, AC005004, AC002429, AP000289, Z99714, Z98950, AC004900, AP000042, AP000110, AL020997, AL080243, AP000142, AL022328, AC003109, AL049636, Z93241, AC012627, AF109907, AL049759, AL022302, AC007666, AC002544, AC006977, AF190465, AL031311, AC005759, AC004223, M97911, AL139054, AC004648, AC002476, AC004913, AC005221, AC005225, AC004815, AC004924, AL049569, AL049713, AP000347, AL022576, AC004857, AL035587, AP000694, AC020663, AC004583, AC005067, AC009516, Z97183, AC000052, AL031985, AB023048, AC005233, AC007686, AP000346, AC006023, AF047825, AL021407, AC006948, AL079303, AC002094, AL117352, AC002542, AF197228, AC004887, AC005695, AC007537, AC005746, AC005291, U85195, AC005015, AF111167, AC0010722, AC004797, U91326, AC004148, AC005355, and AC004453. |
| HCWHV61 | 1361 | 849983 | 1 - 410 | 15 - 424 | AA059296.  |
| HCWHV64 | 1362 | 770049 | 1 - 407 | 15 - 421 |  |
| HCWHV66 | 1363 | 923527 | 1 - 505 | 15 - 519 |  |
| HCWHV71 | 1364 | 917274 | 1 - 489 | 15 - 503 |  |
| HCWHV94 | 1365 | 953379 | 1 - 360 | 15 - 374 |  |

|         |      |        |         |          |  |
|---------|------|--------|---------|----------|--|
| HCWHW32 | 1366 | 861905 | 1 - 546 | 15 - 560 | AA629679, AF111168, AF207550, AF000501, and AF111167.  |
| HCWHW38 | 1367 | 722213 | 1 - 286 | 15 - 300 | AW023111, AA333054, AL048002, AI281818, H71678, AW150387, AW151247, AA069729, AI791659, AA515728, AW237905, H69523, AA706495, AI742168, AA315361, AA727906, H29914, AH40259, AI192440, AW245354, AA984920, AA601728, AA584756, AA284247, AW104163, AL040374, AW265688, AA837035, AI110464, AI821931, AP000210, AP000132, AP000248, AC003962, AC010170, AL049589, AP000030, AL133246, U91321, AC004966, AC004938, AL035400, AC005921, AC007308, AL134477, AP000503, AC007052, AL080317, AC000353, AL096791, U95090, AF134726, AL035071, AL035405, AC006515, AC009516, AL021546, AC006965, AI003147, AC006312, AC003684, AL117258, AC005318, AL021069, AC004797, AB000882, AC005046, AF047825, Z83826, AL1108730, AC007546, AC0064581, AF001548, AC004764, AC006468, AF129756, AC004890, AP000512, AC005231, AC004605, AP000692, AC002310, AC007690, AL031427, AC006480, AL031668, AF001550, AF109907, AL022322, AP000557, AL022171, AC004881, AL117694, AP000038, AC002404, AC005086, AL024498, AC004156, AL035089, AC004882, AC003108, Z83308, AC005529, U52112, AC008040, AC006455, AL031428, Z85987, AP000350, AF064861, Z98946, U50871, Z82189, AL035681, Z82215, AC005527, AC008055, AC006285, AL008729, AL022318, AC016025, AC005288, AC005666, AP000311, AC020663, AL109627, AC008372, AC002477, AC005722, AC003038, AC007057, AL049872, AL096766, AP000558, AC006130, AL133243, AC005907, AC005513, AC005914, AC005015, U47924, AC004686, AL031255, AC004000, AL049775, AC004228, AC004253, AF117829, AC006023, Z82201, AC005736, AC006571, X55448, AL024507, AC006080, AF155238, AL049843, AC006449, AC004525, AC004796, AC004656, AC007450, AD000812, AP000049, AL049694, AP000553, AC006262, AP000251, AC004143, Y10196, AC005971, AC005777, AL023575, AL132642, AP000113, AP000045, AL021707, AL050305, AC006441, AC005180, AC007172, AL035683, AL021808, AP000212, AP000134, AC002375, AC004601, L44140, AC004585, AC004832, AC007376, AL021807, AC002126, AC005684, AP000355, AL035079, AC004491, AC007999, AL034548, AC004887, AL034420, AF139813, AC005220, AP000208, AC006121, AL096701, AC006111, AC002301, U52111, AC006208, AC004131, AL021155, AP000247, AC004662, AC007536, AC006317, AL031588, AC005839, AC007537, AC004883, AC004263, AL049869, AC005070, AL022313, AL035086, Z97876, Z97353, AC007055, AC005516, AC005412, AL035420, AC002045, AP000359, Z95114, U95740, AC005229, Z83838, Z85986, AC005740, AC003042, AC005632, AC007292, AC007226, AC006271, AL035684, AL031311, AC005484, U91326, AC004125, AL022476, AL031663, Z93241, AC005874, AF134471, AL031133, AL049636, AC005899, AC007541, AC007845, AB026898, AL035697, AC007242, and AP000488. |
| HCWHX08 | 1369 | 959456 | 1 - 439 | 15 - 453 | AA605123, AB63720, AI962510, F18638, AA482711, AI061334, AI352078, AI344844, AA493219, AI355206, AI962050, AA843450, AI921649, N43757, AA829106, AI624698,   |



AA489775, C06327, AA828704, AA581903, AW023672, AA502103, AA665330, AI860020, AA226305, N54894, F30933, AI017415, AA503015, AI138265, AI137648, AI042853, AW742109, AW303196, AW273439, AI053623, AP956124, AA661948, C05755, AA621704, AW301350, AA468022, AI904894, AI564284, AA348929, AA338486, AI284640, AI043719, AA53383, AA310158, AI567076, AW074059, AA369477, AI356904, AI305766, AI313303, AI151261, AI732120, AI061296, AA483771, AI547286, AW193265, H13757, AA826303, AW714453, AW247819, AI619997, AI053489, AA542991, AW080134, AI890928, AA810318, AA525824, AW021747, N25303, AW276817, AI077554, AA252763, AI302963, F258667, T00692, AA469642, AI434311, AI061143, H78195, AI132833, AA603445, AA069118, AW193432, AI688846, AW102849, U57007, AF015160, AF015153, A39972, AF015155, AF165926, Z30979, AF015167, AF015148, AC005081, AF023879, AF090940, AC009247, AC006350, AC007216, AC0001081, AC004887, AP000248, AC006057, AF1688862, UI2580, AC007735, AC005944, AI121658, AC060077, AC004677, AC004150, UI18396, AC006547, AC004895, AC004797, AF015166, AI246003, AC002378, AP000533, AC002425, AC004678, AC004542, AF041570, AI080243, AC006538, AC006019, AF196779, AF015158, AC010206, AB023049, UI18395, AC002115, AC004812, AC006312, AI031846, AF003634, AC0066571, AC004668, X55926, UI18398, AC004913, AI121655, AI022721, AC005004, AD001527, AC011311, AF069508, AC006040, L35531, AC021546, Z69921, AC016025, AI133245, AC004903, AF071257, U57009, UI91326, AF024533, AF114156, AC005231, U95742, AC006449, AI132992, U47924, AP001052, AC005037, AC006111, AC006254, AC003104, UI57005, AI135744, AC005280, AI121603, AC020463, U85195, AC009516, AI022326, AF109007, U67234, AF0415162, AI050321, AI0213494, AC002301, AI034549, AC005454, AC006241, AC006486, AC007546, AI022329, AI023553, UI18394, AI133246, AP000517, UI12582, AI049757, AF088219, AC005212, AI035659, AE006058, AI031685, AI109627, AI035387, X54180, UI18391, X55925, X54176, AC002310, AC003041, AC007676, AI031650, AC006285, AC004771, AI031281, AC006251, AC002369, AC006088, AI049776, Z95114, AC007536, AI022320, Z74739, AF045555, AP000359, AC005520, AD000092, AC007666, AC006511, AC004612, AC004972, AC005041, AC005696, AI034420, M89651, AC002543, AC006840, AI022302, Z93241, AC004033, AF049895, AF015171, AC006480, AC004448, AC008984, AC006600, AI035422, AC007114, Z83840, AP000512, AP000698, AB001523, Z82190, AI139054, UI18392, AC005940, AC005736, AI049759, AP001059, AI109984, AI031594, AC002072, AC004019, AB023054, AC005821, Z97630, AC007014, AC007066, AF107885, AP000513, AP001040, AC006512, AF134726, AC006042, AC006132, AC004263, AC004230, AC005154, Z90235, AI021528, AC005618, AC003962, AC005015, AP000555, UI80027, AC005544, Z98030, AC005600, AC005500, AC007243, Z98950, AC0032470, AC004673, D84394, AC006539, AC003110, AC005722, UI800172, UI800158, X54181, X54178, AI031577, UI18393, AI096701, AC009509, AC006948, AC006752, Y10196, AC005911

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|---------|------|--------|---------|----------|---|
| HCWHX09 | 1370 | 625596 | 1 - 339 | 15 - 353 | AC005375, AL031720, AC002091, AL035448, AC004638, AC003101, L35668, Z86090, AC016026, AL022323, AP000557, AL031255, AC002073, AC004890, AC005612, AC005488, and AC007055.   |
| HCWHX72 | 1371 | 849884 | 1 - 351 | 15 - 365 | T59825.   |
| HCWHX91 | 1372 | 723178 | 1 - 286 | 15 - 300 |   |
| HCWHX95 | 1373 | 736004 | 1 - 260 | 15 - 274 |   |
| HCWHZ18 | 1374 | 666452 | 1 - 329 | 15 - 343 | AI268099, and AI702282.   |
| HCWHZ51 | 1375 | 725682 | 1 - 317 | 15 - 331 |   |
| HCWHZ59 | 1376 | 739294 | 1 - 321 | 15 - 335 | AI525565, AL039783, and AA758552.   |
| HCWHZ83 | 1377 | 781186 | 1 - 128 | 15 - 142 |   |
| HCWHZ89 | 1378 | 668670 | 1 - 144 | 15 - 158 |   |
| HCWKA13 | 1379 | 494088 | 1 - 569 | 15 - 583 |   |
| HCWKA21 | 1380 | 670897 | 1 - 254 | 15 - 268 | AI526203, AI541570, V00116, AF162506, AF162502, AF162504, AF162499, AF162503, AF162505, AF162501, and AF162500.   |
| HCWKA28 | 1381 | 466763 | 1 - 407 | 15 - 421 | AA484648, AA503002, T61555, AP000256, AP000098, U36478, AP000155, AP000104, U91326, AL031659, AC002544, and AC007546.   |
| HCWKA79 | 1382 | 574911 | 1 - 505 | 15 - 519 | AC002040.   |
| HCWKA96 | 1383 | 963621 | 1 - 342 | 15 - 356 | AW181906, AI457975, and AA782016.   |
| HCWKB04 | 1384 | 676904 | 1 - 428 | 15 - 442 | AI299828, N51706, AA936483, R36572, R24933, AI299043, P05240, AI567908, H92474, N51794, AA806500, AA878245, AA482890, AA845639, and AF131763.   |
| HCWKB10 | 1385 | 964570 | 1 - 396 | 15 - 410 | AC004139.   |
| HCWKB33 | 1386 | 496385 | 1 - 138 | 15 - 152 |   |
| HCWKD34 | 1387 | 706520 | 1 - 362 | 15 - 376 |   |
| HCWKF08 | 1388 | 959388 | 1 - 290 | 15 - 304 |   |
| HCWKF28 | 1389 | 686655 | 1 - 327 | 15 - 341 | AI732327, AW327673, AI872229, AA493464, AI754257, AI521019, AI002950, AA132929, AW419201, AI890297, AW338376, AA171400, AW157128, AA218684, AA557945, AI828721, AI572680, AA493546, AI826857, AW243817, AA661583, AI434103, AA384360, AA425283, AI571094, AL039117, AA084320, N26159, AI270280, AA600127, AA570243, AI574926, T34066, N99245, AW085711, W45215, AA557508, AA629668, AI167656, AA807704, T10218, AA601376, AA489390, AI348780, AI520984, AW029626, AI744890, AA430214, AA493245, AA610245, AW020612, AI568262, AI567676, AI732720, AA153298, AA640305, AI889177, AI925588, AI888050, AW129188, AA455202, AI570067, AI275989, AW162762, AA569220, AA535538, R61887, AI734158, AI341986, AI821605, AA287823, R33588, AI609972, AA369465, AA834891, AI620666, AI125143, AI300608, R54095, AW008217, AA340581, AI433952, AW105729, H05066, AA342029, AI086603, AI734193, AA315052, D29474, AA524604. |

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| AA569776, AC005516, AL050129, AL050338, AP000116, AC006141, AP000036, AP000099, AL109854, M87914, U73630, AC006511, AC005041, AC002316, Z49154, AL0080250, AL15744, AC005531, AC000090, Z98051, L47222, Z97876, AC004098, Z69705, AC004491, AP000954, AP000088, AF207550, AP000115, AL132987, AC004943, AC004673, AP000308, AB001523, AC004754, AL035460, AL031864, AC005015, AC008044, U91327, U71148, AC0050412, AC004792, AC005358, AP000048, AL133353, AP000113, AP000045, AC005740, AL022238, AL022149, AC005552, AL009952, AL023803, AC005776, AF064859, AC005180, AF124523, AL004675, AF196779, AL096703, AC007386, AF088219, AC005228, AF134726, AC005102, U91328, AF196971, AC004409, AJ251973, AP000250, AL031588, AL031602, AL096791, AF191071, AL022326, AC004019, AP000030, AC009516, AC010205, AP000354, AC002330, Z98941, AL031311, AP000141, AL190054, AC004000, L47225, AC005519, AC007686, AC004802, AC006013, Z82190, AP000251, AC003982, AK036572, AL020993, AL049694, AL031133, AC004448, AC004967, AC008009, AL031291, AP000557, AC002465, AC005323, AL022165, AC003353, Z83308, AC005921, AC006157, AL033527, AC007401, AP000348, AL031003, AL096776, AC005325, U18270, AC003106, AC002470, Z93017, L78810, AF064858, AL117330, AL031667, AL031680, AP000692, X04981, AC005355, AL022721, AC005670, AC002563, AC003029, U95742, AC005484, AC005837, AC004148, AC004985, M87909, AL035086, AP000133, AP000211, AJ009610, X56997, AC009248, AL024507, AL030875, AL109627, AP001060, AC006162, AC005369, AC002477, AC005908, AC005911, D6075, AC005086, AC005913, AP000812, AC006014, AC007216, AP000466, AC016831, U62317, AP000563, X71874, AL020997, AL109985, AB000931, AC002551, AC005695, AC005856, AC001228, AL008382, AL049646, AC005346, AC006139, AC006323, AC005512, AC003072, AC009247, AC004585, Z98752, AC020663, AC006236, AC005859, Z93241, AC004611, AC006312, AC003108, AC005730, AL096712, AC005253, AC004526, AP001054, AC005257, AL035423, AL050341, Z98750, D16517, AC005377, AL078477, AC006315, AC004655, AC006487, AC006449, AC006121, Z93848, AC003013, AF106656, AC005381, AC000094, U78027, AL003147, Z93783, AC012627, AC004686, AC006441, AC004263, AC004887, AP000263, L05367, AL121653, AP000359, AL008731, AC002314, AC004999, Z95704, AC004816, AC005768, AC005759, AL034548, AC007676, AC004883, AC002404, AL109984, AC004890, AC004973, AP000280, AC005562, AC007371, AC003110, AC004225, Z99716, AL035658, and AL031255. |      |        |         |          |
| HCWKFP29  | 1390 | 779862 | 1 - 193 | 15 - 207 |
| HCWKGI0   | 1391 | 964577 | 1 - 369 | 15 - 383 |
| HCWKH08   | 1392 | 959381 | 1 - 452 | 15 - 466 |

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| AA687561, R92658, T41164, AA128863, AA830615, AA758275, H52638, AI800345, AI798521, AA653713, AA614139, AI285493, AI921765, AA601390, AI138252, T41132, Z99128, AI031685, AI078639, AC005049, AC006344, AC005921, AC002299, AC005838, AC007129, AC006141, AC002430, AC005823, AL096791, AC005520, AC008040, Z83851, AC006396, AF124523, AI031289, AL022398, Z83844, AC005067, AF017104, AC016831, AC005764, AI135959, AL020993, AP000065, Z82172, AL035658, AC006254, AC007842, AL096699, AL021331, AL049539, AI006997, AC004692, AI034449, AC002352, AC002470, AF112484, AF042834, Z83334, X87333, AF045999, AL035398, U82668, AP000008, AC007880, AP000704, Z82214, AC002402, AI133216, AC000353, AC005274, AC005881, AP000310, Z98272, AC005202, AL031728, AP000116, AC002425, AL031589, AP001068, AC004953, AC005787, AI011930, AF031075, AC003051, AC002511, AP000250, Z99754, AC004652, AC005787, AP000030, AP000211, AC004585, AC004895, AC005822, AI132642, AC004129, AC0060930, AI121603, Z49237, Z97195, AC004050, AL022396, AL031587, AC003666, AC004664, AC003991, Z97196, AI109984, AC004966, AI121653, AC005736, AC009028, AC004887, AC007240, AL049569, AL096768, AP000032, AC004263, AL021707, Z95115, AF001550, AF001549, AF109907, AC008372, AC005332, AP000509, AC003009, AC005971, AI133162, Z84487, AP030876, U62292, AC007766, AC005944, U62293, U63721, AC005057, AI133162, AC004638, L78810, AI117352, AC020663, AI136504, AI133355, AC007130, AC004647, AI031258, AL008726, AL035608, AL031282, AL050307, AC000026, AL035460, AC004967, AC005913, AL009178, AL022721, AC002059, AP000344, and Z99716 |      |        |         |          |
| HCWKH16   | 1393 | 661898 | 1 - 369 | 15 - 383 |
| HCWKH25   | 1394 | 678086 | 1 - 295 | 15 - 309 |
| HCWKH36   | 1395 | 924191 | 1 - 287 | 15 - 301 |
| HCWKI31   | 1396 | 678375 | 1 - 64  | 15 - 78  |
| HCWKI77   | 1397 | 920043 | 1 - 445 | 15 - 459 |
| HCWKI92   | 1398 | 792689 | 1 - 466 | 15 - 480 |
| HCWKI23   | 1399 | 934393 | 1 - 464 | 15 - 478 |
| AI526025, AI541507, AI557804, AI557719, AI526171, AI557741, AI557764, and V00115  |      |        |         |          |
| AL041690, AI471481, AW261871, AA055169, M86143, AA720702, AI903462, AI1334435, AA551552, AA594145, AI432270, AA483223, AA559290, AA503600, AW301302, AA503119, AW050498, AI133297, AW767777, AW023990, AA632612, AW406755, AA493708, AI134443, AA92351, AW103509, AI733755, NZ7329, AA806796, AA828042, AI135829, Z99889, AA587667, T41050, AA810269, AA719805, AW083364, A W083402, AA491814, AA326441, AW273218, AI860020, AI119691, AA533303, H78195, AA502107, AI061334, AL042753, AI754336, AI918421, AI002834, AI382614, AA954936, AI801600, AI580652, AA810370, AA577959, F36306, AW062724, AA652057, AA623002, AA834755, AW112385, AA503258, AI158812, AW022400, AA478355, AI866856, AI282515, AA496260, AA533725, AA572713, AA573725, AI732179, AA469451, AA503154, AA535661, AI702313, AA644538, AI049634, AW057877, AA483521, AA480784, AA657535, AA610491, AA071393, AA601876,  |      |        |         |          |

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| AA634889, D82290, AA526342, AA714453, AA502104, AA683258, AA640034, AA531079, AI053406, AI053623, AI863054, AA635105, AW193295, AW265385, H46122, AI368256, AA584581, AA581903, AA847499, D82542, AI1110688, AA346458, AA653375, AI01700, AI344844, AA934680, T40617, AA568341, AI355206, AA846952, AW075511, AI207610, AA302963, AA779746, AA614070, AI886629, AA468022, AA828749, AI921061, AA302648, AI963720, AI365988, AA652764, AI434706, AA664909, Z78385, AA782272, AA745406, AA601355, AA569471, AI079389, AI951863, AI283911, AI079812, AI924872, H71429, AA577426, AW247819, AA720758, AA487621, AI046457, AA513136, H70994, AI019790, AA834646, AA665021, AA773902, AA533333, AA488746, AA679124, AC005412, U80017, AC020663, AC004098, L78833, AI121603, AF031078, AP000552, AF030876, AC009516, AC002563, X87344, AC007970, AC005031, AP000103, AC002091, AC004216, Z82976, AC013248, AC006132, AI023575, AC005516, AC005901, Z95115, AC005154, AI034555, AC004638, AC005288, AI031257, AC007917, AC007114, AC007051, AP000548, AI096701, U85195, AC006026, AC006539, AI002477, AC002549, AL080243, AC003950, X53549, AP000556, AE000658, U66059, AI031682, U34879, AF064861, AC002395, AF010317, AF064863, AP000555, AC006925, AC004159, AI033522, AI109827, AC005696, Z98304, AC005690, AP000557, Z22650, AI132712, Z49769, AI049776, AC004662, AI021977, AF088219, AC008126, AI136297, AC010072, AP000473, AI035458, AI008629, AI122021, AC006581, AC006271, AI121882, Z86090, AC005212, AI049759, U18388, AC007237, AF002223, AI031733, AC005821, AC004854, AI022323, AC003664, AI035420, AC006684, AC004259, AC005740, AI133246, AI021453, L44140, AI031650, AC007877, AC005294, AC004813, AC005531, AC004600, AC005324, AC002377, AI021154, AC005197, Z98051, AC005765, AI117330, U35114, AI049712, AC004887, AF165176, AI050348, AC0070687, AC0007731, AC004149, AC005911, AC005565, AC006130, AB020859, AI020993, AI096699, AI008627, AC005500, L29074, AC006318, AC008101, AI049833, AC007245, AC006515, AC004485, AI035587, AC000085, AP000952, AC004686, AC006211, AC005914, AI031591, Z68869, AC000052, AC000353, AF121781, AC004019, AP000567, M37551, AC005694, AC007262, AI096791, AC004134, AC004447, AI122020, AC005249, AP000248, AF190465, AI133269, Z97053, AC000075, AC004637, AI031277, AI020997, AC005664, AI008873, AC005678, AC004975, AI010200, AI031120, AI022328, AC005599, AC002040, AF029308, AC005019, Z97181, AI032821, AC004755, AC005015, U91321, AC007226, AP000193, AI031427, AC005005, AC006571, U78027, AC004675, D87675, AC007052, AP000353, Z70049, AC006064, AC005527, AI034379, AC004913, AP000050, AC005279, AC002350, AI133245, AI021069, AC005280, AI034449, AC005829, AC005924, AI109628, AP000311, AC004764, Z82244, AC007207, AI031118, AI049544, AI035070, AI021155, AC007666, AC006370, AC007421, AI035494, AC005231, U82668, AP000117, AC002558, U14708, AC009286, Z70707, AC004029, AC006285, Z75889, AI009174, AI035422, AC000118, AI049742, AC016025, |  |  |  |  |
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|---------|------|--------|---------|----------|--|
|         |      |        |         |          | AR000118, AC006123, AC007066, AC005618, AC002306, AC004889, AC005520, AC003101, AP000228, AC004477, AP001037, AC005225, AL121578, AF129756, AC002509, AC004690, AC008249, AC005495, and AC004821.<br>T20034, and AL034548.   |
| HCWK140 | 1400 | 861851 | 1 - 397 | 15 - 411 |  |
| HCWK160 | 1401 | 968112 | 1 - 364 | 15 - 378 |  |
| HCWK196 | 1402 | 571302 | 1 - 291 | 15 - 305 |  |
| HCWK28  | 1403 | 849915 | 1 - 343 | 15 - 357 |  |
| HCWK31  | 1404 | 697974 | 1 - 155 | 15 - 169 |  |
| HCWK58  | 1405 | 849934 | 1 - 393 | 15 - 407 |  |
| HCWK60  | 1406 | 740347 | 1 - 359 | 15 - 373 |  |
| HCWK88  | 1407 | 792086 | 1 - 246 | 15 - 260 | AA535661, F19258, H72666, A1886176, A1923140, AW157326, N99715, AW021917, AA340003, A1721122, AA501872, A167741, A1761471, C18648, A1358229, AA584749, A133986, AW339687, A1088058, A1439360, A1635272, AA366820, AW406447, AA332991, A1281903, AL120483, T12272, N23649, A1305766, AW261871, AW439558, F29989, H00934, T40338, AA652057, AA649642, AA377730, T0617, A1053786, AA581342, A1365988, AL133723, T16592, AA489775, AA365347, AA508080, A1863283, AA125788, A1742771, AW008317, A1567786, AA569284, A1561116, F31204, A1914706, H18175, F18974, A1571512, A10704398, R93061, A1049634, AA515128, AA515435, A1375710, AW193432, A1284640, H60239, F25276, AA558697, AA363260, AW304584, N71724, H92005, F35659, AA483204, A1110822, A146464, AA669251, AW276827, AA558227, AA016286, F28576, A1282907, AA973575, A1569086, AA441788, AW193265, T29180, AW337985, AA682189, A1079910, AW130799, A1445436, AW023270, A1802526, A1064864, A1890052, AA743956, A1093786, A1613280, AA181718, AW780929, AL118911, A1493546, A1079645, A1344844, F36273, F37286, A1521901, AA309485, A1471481, AA919037, A1048925, A1042856, AW193512, AA095511, A1963095, A1879000, AW270284, AW327360, AA745410, T58118, F36306, AA443065, A1688846, AA344959, Z84480, A1246003, A1049836, A121658, AC002429, AC005386, AC009501, AP000292, A1039905, AC004650, A109653, Z93023, AC002981, AP000111, AP000043, AC018633, AC006030, AC004808, A1035411, AC002386, A1022147, A1009051, A1008629, AC005901, AF222686, A1034384, AC009405, A1035090, A1035671, AC004903, A1031116, A132708, AC005158, AC003029, AC005723, A1049647, A1117693, A109759, AF053356, AC007036, AC004485, AC004655, A121603, A1011930, A1049745, AC004453, A1031432, AC004738, AC0006152, AC004069, A1109854, Z94004, AC008012, Z94056, AC002067, A1031602, AC008115, AC006347, AC004901, AC005341, A1006345, AC004070, AC004072, A133321, AC000085, AC007625, AC006071, AC005597, A1022165, AC004382, Z93242, A111168, AC005280, U91322, A1033375, AC006482, AC007172, A1031542, AC002349, AF123462, A1022318, Z98036, AC011604, AC006046, AC006111, Z93928, A1049834, AC008008, AC007102, AC004458, AC005829, A1118497, A1035427, AC005183, AC007207, AC007743, AC000482. |

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|         |      |        |         |          | AP000506, AC005972, AC003016, AF188025, AC009263, Z73416, AC005915, AC004835, AB000882, AC005161, AC006031, AC007055, AC005993, AL009181, AC008033, Z83308, AL008635, AC006257, AL0035634, AL133371, AL049777, AL035446, AC007308, AL031043, AC004875, AL049780, AC007632, Z99716, Z93784, AP000359, AC004527, AL043431, AC005826, AC005007, AB020867, AF015416, Z97630, AC005084, AL050333, AF067844, AC004947, AL096707, AL035703, AC005832, AL022329, AC008085, AC004460, AC003664, AC002470, AC005190, AC009241, U59962, AC006057, AL049829, AC004585, AC006966, AL109839, AL133163, AF165926, AC006120, AC005243, AC002091, Z95116, AC003085, U82828, AC006484, Z83338, AC006079, AC004859, AC005862, AF002223, AL023656, AL035425, AL022161, AL109847, AL031686, and AC005678.  |
| HCWKM90 | 1408 | 960177 | 1 - 325 | 15 - 339 | AA053759, AI452726, AA724782, AI275071, T08298, AA582073, AA953238, AI811302, AA584526, AI147425, AI635247, AI310873, AI345366, AA047715, AI147466, AI921328, N71746, AA758366, AA581329, Z22942, AA654318, AI445088, AA702729, H55756, AA679511, AA741028, AL040170, AI268334, AI268336, C18993, W56883, AA126450, AL138128, AA292178, AW118442, W92132, AW271711, T47909, AA236903, AL036037, T11828, AI913370, AI349849, AW168420, AA683238, AA757775, AI732223, AW128884, AI119691, AW128900, AI732154, AA847181, AW021917, AA857428, AL037952, AL044286, AI1590485, AL037383, AA219059, AA487272, AA350349, R02522, AA484373, AI207846, T89952, AA513188, Z22633, AI283456, AA872990, AW021583, AI371429, AA464976, AA454041, T65779, AI094315, AA600869, AI023637, AA136649, AI135377, T61573, AC007036, AC004080, AC004595, AP000301, AP000114, AP0000045, AL035403, AC003024, Z95116, AC006195, Z97987, AC004816, AC004912, AC003687, AC004531, AC006037, Z83301, AC010206, AC002319, AC005670, AF110527, AL022333, AL022314, AC006928, AP000346, AF036405, AC004975, AP000495, AC007226, AC009516, Z82190, AC004811, AL122020, AL049781, AL050402, AR038761, AP000253, AP000252, AP000213, AP000135, AC007030, AP000031, AC002381, AC005495, AL031734, AP0000298, AF020662, Z75746, L34079, AF039907, AC004196, AC004156, AC000393, AC005387, AP000390, AP000745, U07562, AC005903, AL121588, Z73001, AL035652, AF190641, AL109827, AP000044, AP000113, AP000162, AP000065, AL050341, AL031776, AF191069, AC004068, AL031447, AI239321, AC005887, AL034417, AL0011523, AL049694, AL034561, AF207550, AL033377, AC004848, AP000697, AL035246, Z82215, AL035423, AL049636, AL024988, AL050403, AC004695, AC007358, AC005088, AC007879, AC002350, AC007065, U91318, AC002449, AL135783, AC012152, AC005871, AC006040, AC007707, AC005971, AC007298, Z69666, AC007162, AC003090, AC006146, AL031116, AC005668, AC005972, AL121823, Z84718, AL117354, AC008064, AC007917, AC005323, AC005919, AL000833, AP000292, AL049795, AC007099, |
| HCWKN08 | 1409 | 959380 | 1 - 270 | 15 - 284 |   |
| HCWKN57 | 1410 | 861537 | 1 - 398 | 15 - 412 |   |

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| HCWK051 | 1411 | 959684 | 1 - 382 | 15 - 496   |
| HCWK082 | 1412 | 827083 | 1 - 314 | 15 - 328   |
| HCWK093 | 1413 | 924104 | 1 - 318 | 15 - 332   |
| HCWK051 | 1414 | 725653 | 1 - 333 | 15 - 347   |
| HCWK053 | 1415 | 664923 | 1 - 296 | 15 - 310   |
| HCWK056 | 1416 | 849861 | 1 - 386 | 15 - 400   |
| HCWK063 | 1417 | 732447 | 1 - 323 | 15 - 337   |
| HCWK031 | 1418 | 849851 | 1 - 533 | 15 - 547   |
| HCWK055 | 1419 | 706487 | 1 - 406 | 15 - 420   |
| HCWK013 | 1420 | 917268 | 1 - 309 | 15 - 323   |
|         |      |        |         | N23693, AA227713, AW304519, N23689, A054395, N23688, H48670, T05410, AA588242, AA223762, A1537310, A1355513, AW263396, AA736445, AC009247, AC005019, AL096701, AL031291, AC004659, AC002381, AL078638, AL132987, AC004878, AC006101, AL139054, AC002059, AC018633, AC005874, AF134471, AC005839, AC005184, AC005295, AC006211, AL117258, AC005095, AC002470, AC007308, AC002350, AF001552, AC003074, AC010077, AP000512, AC007774, AC007406, AC005988, AC008044, AC005089, AC006948, AC005316, AC002544, AL031054, AC004383, AC004522, AF109907, AC005317, AC006241, AC004966, AC006552, AC004236, AC007161, AL109628, AC002086, AC006480, AC005071, U40369, AC002551, M13792, AF003626, AC006088, AL096763, AC007677, AL022334, AC005519, Z95331, and AF207550. |
| HCWK080 | 1421 | 527074 | 1 - 384 | 15 - 398   |
| HCWK013 | 1422 | 657194 | 1 - 299 | 15 - 313   |
| HCWK011 | 1423 | 966989 | 1 - 355 | 15 - 369   |
|         |      |        |         | AW271211, AL244254, N22058, AA715418, AA955031, AL078472, AP000023, AC004106, AF003626, AF139813, AP000555, AC004858, AC005277, AL139054, AL022163, AC004228, AL031311, AF109907, AC005972, AL031594, AF129756, AC005666, AC004878, AC004491, AL122020, AL049872, AC005971, AC008119, AC004983, AC006064, AC006111, AP000501, AL033392, AC005288, AL049780, AC004622, AC004913, AC002316, AC005844, AC005829, AL009179, AC005778, AC003025, Z84483, AC004408, AC000085, AC004678, AL109758, Z84467.  |



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| AF134726, AL121653, AL096763, Z03930, AC005668, AC016025, AC003085, AF196971, AL031591, AC005071, AP000692, AL021155, AC007421, AC004257, AC002477, AC004032, AC005663, AC002303, AC007055, AP000512, AC005736, AC005482, AL096791, AC001131, AC005041, AC005015, AP000359, AC005237, AF031078, AB023049, AC007486, AC011331, AF205588, AL031228, AC004552, AF037338, AC006001, AC005632, AF030876, AL033527, AC006271, AL035411, Z85987, AC005874, AF134471, AC006468, U91321, AC005529, AC006480, AL031427, AC004019, AP000502, AL109939, AC004525, AC005180, AC005324, AL009177, AC005081, AP000246, AL031664, AC005399, AP000509, AC002312, AC007845, AF045555, Z98051, AC006120, AL049829, AC005568, AL008715, AL049696, AC003982, AC006160, AL109839, AC005480, AP000032, AC002091, AL035467, AC005215, AC005102, AF001550, AL020995, AC002094, AL133246, AL096701, AC002310, AP000345, AC006277, AL121595, AL080248, AC006530, AC005484, AL003147, AP000354, AL049569, AC002470, AC004517, AC002400, AL031662, AC005225, AC004895, AC004551, AP000103, Z84487, AC007934, AC002364, AL022329, AC005531, and AL049759. |  |  |  |  |  |
| AC006014, AC005488, AL049869, U29895, AC005529, AC008372, AD001527, AC005081, Y18000, AC007225, AC005011, AL021155, AC002544, AF111167, AC004526, Z85987, AC006538, AC002470, and Z98949.   |  |  |  |  |  |
| AA694449, AA568961, and AL031602.   |  |  |  |  |  |
| AC007463.   |  |  |  |  |  |
| AA476149, AL476150, AA310216, H90114, AA742815, AA904211, AA468371, T50676, AA468505, AA230025, AA614254, AA228368, N73060, AL050760, AL572680, AA188423, R33091, AL281561, AA224889, AL457313, AL634187, AW069227, T03928, AL431513, AL917132, AA584756, AA302978, AW304637, AL679221, AA171892, AA135761, AL100992, AL1300818, AW243808, F99968, AL601229, AA228269, AL628859, AL884522, AA654763, AA728911, AA525753, AW340905, AL583142, AL1754653, AA017149, AW028376, AW068008, AW068007, AA297776, F17537, H84412, AL277318, AL217162, AA077776, AA278496, AA493628, AA492524, AL635440, AL473995, AA206707, AW069537, AA557945, AA573062, AA587826,   |  |  |  |  |  |
| HCWK743 1424 659539 1 - 230 15 - 244  |  |  |  |  |  |
| HCWK757 1425 881629 1 - 331 15 - 345  |  |  |  |  |  |
| HCWK763 1426 849044 1 - 463 15 - 477  |  |  |  |  |  |
| HCWK768 1427 959801 1 - 241 15 - 255  |  |  |  |  |  |
| HCWK777 1428 527554 1 - 388 15 - 402  |  |  |  |  |  |
| HCWK785 1429 932540 1 - 373 15 - 387  |  |  |  |  |  |
| HCWKX13 1430 466512 1 - 393 15 - 407  |  |  |  |  |  |
| HCWKX61 1431 676895 1 - 400 15 - 414  |  |  |  |  |  |
| HCWKX68 1432 725014 1 - 345 15 - 359  |  |  |  |  |  |
| HCWKX77 1433 772163 1 - 405 15 - 419  |  |  |  |  |  |
| HCWKX81 1434 724873 1 - 437 15 - 451  |  |  |  |  |  |
| HCWL68 1435 665744 1 - 291 15 - 305   |  |  |  |  |  |
| HCWLD01 1436 916439 1 - 691 15 - 705  |  |  |  |  |  |

|          |      |        |         |   |
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|          |      |        |         | AA053136, AI613389, AW028950, F00688, AW194024, T94072, AI267356, AA743968, AI039257, H43771, AA367920, AW067788, AA470512, AW341882, R34070, AA702717, AI872461, H52283, AA827490, AI732502, AA015753, AW050318, I34294, AI109798, AC005081, AC018633, AP000511, AC005495, AI035659, AC004967, AI022326, F0000694, AF165926, AC049872, AC004211, AI020997, AI022333, AC006301, AC005520, AC007384, AP000032, Z85987, AC005774, AC007546, AP001013, AI034420, AB023049, AB023050, AI136295, AC002072, AF178030, AI049712, AC002430, AP000513, AC006241, Z83845, AF111168, U78027, AC002302, AC006449, Z99716, AC006581, AF050636, AI22023, AC004797, AI049697, AI035422, AC004985, Z68276, AI031427, AP000269, AC007193, AC002310, AJ251973, AC005755, AI008723, AI031284, AC002477, Z82208, AC004815, AC002395, AI031685, AB009695, AC007314, AF045542, AC006455, Z95114, AC005874, AF134671, AC003692, AC005519, AC006948, AC006077, AC005781, AC000041, AB020868, AC005015, AF207550, AI049776, AI035072, AC005480, AF001550, AC006211, AI021392, AC006312, AC005815, AP000359, AC005291, I44140, AI033568, AF196971, AC000025, AC002553, AC004024, Z97056, AC004686, AC007993, AI109963, Z54246, Z82215, AC002365, AC004148, AC007130, AC007371, AC004623, I971318, Z84469, Z99129, AI031584, AF001548, AJ003147, AI133243, AL008735, AC006079, AF049913, AI031657, AF024533, AI050337, AP000289, AC005736, AI035413, AI096701, AC005776, AP000042, AP000110, U26425, AB017602, AC007225, AI035587, AC003690, AI031846, AC007687, AF000354, AC006544, U62317, AC005484, AC004922, AC007199, AI034548, AI022165, AC002563, AC003688, AI022316, AC007052, AC005972, AC005070, AI023553, AF033356, AC006966, AC006958, AI034582, AI096791, AI031670, AC005914, AI049713, AI034423, AC005899, AC002425, AC005696, AI024474, AI035455, AI035458, AC004531, AC002985, AI132708, AP000048, AI022311, Z93241, AC006630, AP000348, Z98036, AI022337, AC006126, AC005924, AP000351, AC002059, AC007639, AI121603, AI031296, U62292, AI031577, AI022336, AC004770, AC002544, AC006120, AC007421, AF196969, AC002091, AC004707, AC000085, AI049553, AC002301, AC004755, Z84718, AC000353, AC004655, Z99774, AC003030, AC004675, AC005670, AI049871, Z83846, AI031311, AI0222163, AC002316, AP000350, AC005004, AC005046, AF038458, AC004765, AC005911, AC005726, AP000512, U85195, AC004560, AF001549, AC0049709, Z84487, AI021878, Z98304, AI035461, AC003007, AP000504, AP000086, AI050341, D89927, AC005759, AC005225, AF111169, AC004151, AI022312, AC004234, AC004477, AC004645, AC005071, AI109628, AP000045, AC004448, AC004884, AI049610, AC005409, AP000555, AC004383, AC003969, AI049757, AI096794, D86995, and AI002059. |
| HCWLD006 | 1437 | 935392 | 1 - 439 | 15 - 453  |
| HCWLD30  | 1438 | 933118 | 1 - 419 | 15 - 433  |

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| AA857812, AA568204, AD061313, AW242031, AL1679759, AP1984168, AL1623764, AW103758, AW265688, AP962030, AA847704, AL155246, AL633168, AL040051, AL1653776, AL890046, AA489390, AL1572680, AL815210, AW103030, AL431513, N23097, AA468956, AA507499, AA463590, AA558366, AA728911, AW082104, AA904211, AL1696878, AA664604, AL148404, AL079901, R44593, AL037910, AL362442, AA158023, AL192725, AL445216, AA599080, AA610381, AL733856, AA582554, AW274078, AL859438, AL357976, AA513916, AA120920, N67313, AA424249, AA558488, AA609834, AW167154, N23913, AW023270, AA572983, AL044966, AA584484, T50676, AL245693, AW189068, AA176604, AL267305, AL282479, AL278972, AL421950, AW408767, AL193337, AL1598003, AL446623, H47736, AL285696, AL590593, AL119691, H60912, AL1590404, AW068853, AL961983, R52008, AW302709, AL830390, AL053673, AA600202, AL17469, AL049694, U95739, R82214, AC005029, AP000359, AL034417, AC005004, Z98048, AC005231, AC007055, AC003041, AC005043, AF165926, AC007308, AC005089, AC002470, Z99716, AL031283, AL132777, U85195, AL034420, AF196779, Z83847, AC003101, AE000658, AC005726, AP000514, AC005755, AC004526, Z83844, AL049795, AC002316, AL022721, AC006441, AP000114, AL133246, Z93241, L44140, AC002314, AF111168, AC004797, AD000671, AC007536, AC005696, AL034379, AL033525, X55448, AL035587, AC005071, U80017, AC003029, AC004757, AC005261, AP000555, AP000553, AC006530, AC005962, Z97054, AC004760, AB014078, AC005730, AL031255, Z98044, AC002472, AC000025, AC005015, Z93020, AP000046, AP000008, AC004895, U91318, Z93017, AC007160, AL031659, AP000557, AC007193, AC020663, AC006252, AL049776, AC009516, AC004150, AP000509, AC003080, AC007664, AL031277, AC007376, AF019413, AC005399, AC000041, AC002563, AC006111, AL020995, AC005920, Z93023, U78027, AC003007, AC005844, AC004832, AL031767, AL035417, AF129756, AC006014, AL080243, AC002477, AL117694, AL121653, AL049760, AC004814, AL035422, AL031681, AC005940, AC005544, AL049829, AC005324, AC005624, AC005907, AC005280, AC004622, AL078593, AF045555, AL021154, AC016025, AL117337, AC006121, AC005921, AC005145, AL022336, AC004878, AC002351, AP000556, AF196969, AC003043, AL031589, AC005971, AF205588, AC004253, AL024507, AC006057, AC004491, AL022165, AC006141, AL121655, AC007371, AC006146, AL096701, AC007216, AC005409, AC005332, AC006511, AL020997, AC002996, AL031295, AL022313, AC008071, AC007283, Z95152, Z85986, AC006285, AC003992, U91322, AC005081, AC007436, AF038458, U91326, AC004967, AC005899, AC005775, AC004821, AC004099, AC004796, AL085710, AC006116, AC008018, AC004653, AP000050, AL035460, AC002425, AC002288, AC002480, AL024498, AL023575, Z93930, AC007011, AL034549, AC007199, AC004983, AL133448, AL009181, AP000472, AP000117, AC008765, AL021453, AC016830, AL050321, Z84476, AL117351, AC002350, AC006251, AC005881, AP001053, AL133245, AL008730, AC004659, AC0031289, AC004913, AL121595, Y14768, AP000111, AP000159, AC006160, AC004596, AC006449, |  |  |  |  |
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|          |      |        |         | AL136295, AL246003, AP000133, AP000211, AC006942, AD000833, AC005529, AF000694, AC002045, AC002544, AC005778, AC002310, AP000505, AP000152, AC006211, AC006071, AL035413, AP000261, AL031186, AL049830, AF111167, AC005790, AP000558, AF047825, AC002301, AC008072, AL109963, AF001363, AF001549, AC004383, U95742, AC005488, AL031432, AC007450, AP000313, AC004707, Z97876, and AL034423.   |
| HCWLD83  | 1439 | 728219 | 1 - 304 | 15 - 318  |
| HCWLE11  | 1440 | 880982 | 1 - 399 | 15 - 413  |
| HCWLE34  | 1441 | 576816 | 1 - 416 | 15 - 430  |
| HCWLE37  | 1442 | 960093 | 1 - 400 | 15 - 414  |
| HCWLE46  | 1443 | 719247 | 1 - 516 | 15 - 530  |
| HCWLE57  | 1444 | 764189 | 1 - 471 | 15 - 485  |
| HCWLE64  | 1445 | 745863 | 1 - 300 | 15 - 314  |
|          |      |        |         | AA837796, AIS21042, AA666066, AIS87565, AIS87583, AF141309, AC007227, AL020997, AC005231, AC006597, AL096791, AC005972, AC004686, AL021546, AC007845, AC003035, AC016025, AC004703, AP000359, Z93023, AL117328, AC004263, AL009181, U96629, AP000355, AC005015, AL034553, AF061032, AC004796, AD000812, AP000354, AC004041, AC003110, AC006344, AC002091, AC002126, and AL031672.   |
|          |      |        |         | AL038842, AL049630, AL733856, AA491423, AA528566, AA525517, AL1886160, AL707744, AA508873, AL243793, AA857381, AA513189, AA765925, AA283081, AC007055, AC004804, AF019413, AL031848, AC005548, AC007193, Z75407, AL031678, AC007537, AL121658, Z98742, AC008101, AL246003, AC005387, AC004738, AC004491, AC008079, AC005746, AL117354, AC005696, AL121603, AL021155, AC005562, AL035405, AC005409, AL031228, Z84480, AF134726, AC004020, AC005057, AL035089, AC004033, Z95152, AL031295, AC005058, AC005358, AC005015, AC007011, AC005899, AC007160, AL133448, AP000689, AC005180, AB023048, AC004605, Z83846, AC002369, AC004686, Z82176, AC005231, AC004859, AL109628, AP000497, Z93017, AC002316, AC004830, AC005859, AC007283, Z97630, AC005520, AC003029, AC006601, AC005209, U62293, AC002352, AC0066271, AF118808, Z75741, AC005620, AL031311, AL121757, AC004797, AC006211, AC002302, M17262, AF124523, AC009069, AL031685, AC004254, AL132712, AB003151, AP000704, Z96074, AC002351, AL109984, AC008719, AC004673, AL109827, AP000536, AC020663, AL031666, AC005529, AL031276, U96629, AC004477, AL031846, AP000692, AC005071, AC002418, AC006120, AC004883, Z95115, AC006026, AL133163, AC003093, AL034548, AF126403, Y07848, AC005740, AL021707, AC004476, AL034423, AC009516, AF111168, AL008631, AF015720, AC003982, AC002299, AC006111, AC007731, AC006285, AC003007, AC005500, AC006077, AL021453, Z82215, AC000026, AC006057, L78810, AL049760, AC003110, AC004531, AC005695, AC004386, U72788, AC006449, AC000353, AC004099, AC006160, AP000500, AC004966, AL008635, AC004856, AL121655, AF139813, U95742. |
| HCWLE95  | 1446 | 684331 | 1 - 175 | 15 - 189  |
| HCWLE102 | 1447 | 853014 | 1 - 688 | 15 - 702  |

|         |      |        |         |          |   |
|---------|------|--------|---------|----------|---|
|         |      |        |         |          | AC005523, AL080317, AC005839, AC004662, AC005800, AL096701, AC007676, AL031664, Z98200, AC006064, U15177, AC003484, AC006252, AC005632, AC000003, Z98752, AL040872, AC005399, AC006013, AL135744, AC007216, AC007993, Z95116, AL021807, Z82208, AC005778, AL133500, AC005006, AC007227, AC002365, Z99716, AC004955, AL0300225, AC007868, AC004526, AC007919, AC002470, AC008044, AC004895, AL035458, AC007637, AC004647, AC005606, AP000553, AL049694, AC005972, AC005086, Z94721, AC007057, AC004815, AL049766, AP000962, AL022721, AC004887, AL096791, Z94801, AC007392, and AL190504.  |
| HCWLH09 | 1448 | 625538 | 1 - 517 | 15 - 531 | AI791227, AA524604, AI708424, AI141202, AI628922, AL134669, AA663579, AI572680, AA504951, AI791720, AI079408, AI079869, AL119331, AA595370, AA577824, AA434870, AI708663, AW021674, AA723282, AI732327, AI828721, AW238137, AA640305, AI753969, AI745666, AI732720, T59943, AI174827, AW022796, AI889177, AI003086, AI049999, AI890297, AW338376, AA171400, AL042539, AI310464, AI434103, AA601712, AI733523, AW248479, AA218684, AW008217, AI860423, AI734119, AA084320, AI312614, AL044966, AI344906, AI270280, AA569220, AI148840, AI254267, AA643788, AI199578, AI221027, AI884404, AA652675, AW275432, AA330549, AW157128, AL044701, AA629668, F25759, AI722229, H64858, H64884, AW338633, H59797, AI679902, AI925423, AI679394, AI678812, AL036896, AA284638, AI884763, AA618531, AA554289, AI567676, AI678468, AI038029, AA525818, AA470490, AA834891, AI281622, N70293, T03576, AI963816, AA493546, AL133238, U91321, AB001523, AC005288, AC004703, AC004752, Z84474, AC006130, AL021940, AC006581, AL035086, AL021391, Z97054, AC007537, AC005412, AL008582, U80017, AF134726, AC005971, AP000692, AC008372, AC005358, AL132777, AL031587, Z84466, AC005519, Z98051, AL022315, AP000512, AL122020, AC005484, AP000099, AC006162, AF111168, Z82198, AC002310, AF118808, AP000365, AC003982, AL031846, AL031666, AC007220, AC002312, AP000036, AC004125, AC005585, AL121603, AC005180, AC004966, AC008044, AC006197, AC004816, AL049776, AC007878, AP000555, AC006254, AF053356, AC005899, AC004638, AP000503, AC005839, AC005747, AC006121, U63721, AC005829, AC006453, AC009516, AC007376, AC002418, AC004821, AE023051, AL049694, AI246003, AC005326, AL078593, Z82201, AC004913, AC004890, AC005291, AC007227, AL022323, AC005837, AL031283, AL022165, Z97053, AC005527, AC005280, AL080243, U78027, AC005261, AL031670, AC004832, AC005031, AC005015, AL049759, AL121595, U85195, AC004099, AC007686, AC005529, AC004386, AC007421, AC005666, AL031427, U52112, AL022316, AC005911, AC006511, AC004552, AC005409, AL022163, AC006277, AC006026, U62293, AE006658, Z83840, AC005399, AC006538, AC000092, AL031311, AL034549, Z98200, Z93017, AC006241, AF111167, AC005932, AL049869, AL096701, AC003665, AC006530, AC004796, |
| HCWLH20 | 1449 | 520356 | 1 - 336 | 15 - 350 |   |
| HCWLH42 | 1450 | 954875 | 1 - 677 | 15 - 691 |   |

|         |      |        |         |          |   |
|---------|------|--------|---------|----------|---|
| HCWLH75 | 1451 | 670202 | 1 - 232 | 15 - 246 | <p>AC002429, AL035422, AC005696, AL035455, AP000359, AL022476, AF088219, AF107885, AC007688, AL044420, AC005037, AC002375, U91325, AC006312, AL035460, AL009181, AC002377, AC005377, AL121655, Z98044, Z98048, AB003151, AC007193, AL008718, AC004659, AL022238, AC004805, AC007934, AC005632, AL049757, AC004673, AC007546, AL121653, AL117258, AL132712, AC016025, U62317, AC005553, AC005531, Z82208, AC006449, AL139054, AC005231, AL022326, AJ003147, AF111169, AC004702, AL109952, AC005755, AL022336, AC004671, AC006057, AC005089, AC007051, AC004228, AL035587, AL035659, AC005920, AC004997, AC002477, Z98742, AC006040, AC006344, L78833, AL133448, Z99716, AC003025, AC005907, AC004929, AL020997, L1251973, AC004883, AC005355, AC006509, AC003379, AL050307, AC005057, AP001065, Z95114, AF109907, AP000279, AC004895, AL021707, AF139813, Z83844, AC005730, AC004812, AL023807, AC004263, AC003041, AP000553, AC006006, AC004662, AL024498, AC004150, AC003966, AL031003, AL050317, AP000556, AL035072, AC006001, U47924, AC006120, AL031286, AR036572, U91328, AC006211, AP000350, AC005722, AC007151, AC003957, AC003043, AC007160, AC004859, AC004967, Z92542, AC004491, AC004019, and AC007690.</p> <p>AI884861, C16780, C16638, AI267356, AA224525, AW270429, T02817, AI267450, AW270351, AI859906, T07225, AI084157, AW062363, AA706160, T08386, AA121784, H47368, AI002389, AI690474, AA730336, H38228, AL044177, N38991, AA526401, AI469392, AI889426, AI791227, AI732911, AA995373, F35684, AI984118, F30497, AA078509, AA652763, Z99930, AI143653, AW019964, AW342143, N64577, AI859605, AI860535, AA857812, AA186905, H425626, AI537800, H83126, AW104831, AI888298, AI279477, AL021154, U02052, AP000432, AC005940, AL096701, AC005288, AC006130, AC006019, AF124730, AL117354, AC000026, AC004234, AL035695, AC009247, Z93930, AC005740, AL031670, AL031846, AL022165, AC007386, AC006965, AF196972, Z84480, AL022320, AC006255, AC004531, AC0060930, AF020503, AP000501, AC004941, AC007283, AL078638, AF001549, U93742, AC005822, Z93016, AC006146, AL022316, AL033527, AL031277, AC007216, AL132712, Z97184, AL031664, AC007388, AC000092, AC006285, AP000466, AC005746, AC002316, AP000555, AC006539, AL034420, AC002059, L47334, AC000052, AC016025, AC005618, AC007376, L48038, AL035072, AF172277, AC002368, AP000550, AC006251, AL023281, AC004973, AL034553, Z83826, AC004967, AL022313, AF047825, AC004019, AC005488, AC004586, AC006538, AC005251, AF196779, AC005154, AC005004, AC006241, AL050348, AC005696, AL035455, AL022323, AL008583, AC004879, AC005911, AF111167, AP000557, AL008582, AC006236, AB023048, L78833, AL10279, AL049830, AC006529, AC0060353, AC004020, Z97635, AL034451, AL031311, AL049758, AC003965, AC002425, AC007389, AC004799, AL121603, AC005519, AC007358, AC004491, AC007193, AL034369, AC006946, AC008018, U95740, M17262, AP000349, AC007066, AF064863, AL022326, AC006441, AP000553, AC007690, AC002326, AC005913, AC004448, AC005399, AL109657, U91321.</p> |
|---------|------|--------|---------|----------|---|

|         |      |        |         |          |   |
|---------|------|--------|---------|----------|---|
|         |      |        |         |          | Z94721, AC007011, AC0046071, AC004797, I34294, AL136295, AD0000812, AC001231, AC007666, Z98051, AF190465, AC005736, AC005207, AL121655, AC007536, AL049757, AF196970, AC002365, AC007993, AF018080, AC005664, AF017257, AC005231, AF111163, AC005081, AF207550, AC005233, AC005180, AC007151, AC005821, AL003147, AC007021, AC005566, AC000086, AF196971, AC009516, AL022324, AC006064, AL008630, AC005072, AP000353, AC002991, AC000080, AC005527, AC005663, AF042836, AC007199, AL022396, AC004985, AP006692, AL033397, AC005512, AC004963, AC009509, AC005872, AC005881, AC004659, AC004578, AC005899, and AC009225.   |
|         |      |        |         |          | AF161019, and AL131890.   |
|         |      |        |         |          |   |
|         |      |        |         |          | T06288, AL568754, T51118, AA626678, AL160117, T58567, AA347927, AA633892, AL439360, AA515224, AL874231, AC006333, AL008721, AC006975, AC003041, AL035681, AL034351, AC007676, AC006026, AL031657, AC005754, AC000052, D84394, AL096701, AC004019, AL021155, AC007637, AL118497, AL049697, AL080243, AC003982, AC002433, AC004972, AC005778, AC000003, AL022238, AC004890, AL021878, AF000313, AL021808, AC005023, I95740, AL049869, AL035072, AL022316, AF000050, AC031092, AC007064, and AF148319.   |
|         |      |        |         |          | AL1914747, H06604, AL096701, AC004491, AC007055, AL023807, AC002559, AC007308, AC002470, AC005632, AC004834, AC004099, AP000344, AC012384, AC004967, AC003071, AC005089, AC003982, AC005189, AL031685, AC005915, Z93017, and AC006441.  |
|         |      |        |         |          | AC007536.   |
|         |      |        |         |          |   |
|         |      |        |         |          | AA135868, H73889, AA569179, AL281401, N55456, R48980, AA652949, AA302934, AL041895, AL364508, AA643770, AL800852, AL292317, R35259, H24957, AA247731, H06021, H58970, T06292, AA278496, AL037006, N74027, AA320232, AL036665, AA558487, AA856817, AA504865, AL080317, Z99128, AL034551, AC009223, AC008041, AD000813, AP000502, AF134726, AF126403, AC002116, AC002465, AC004139, AC004257, AL049569, AC003108, AC011331, AC004921, AC007388, AC004833, AC006392, AL031650, AL118516, AC003105, AC005488, AL035682, AL050321, D84394, AP000509, AF196969, Y10196, AP000135, AL121655, U80017, AC008134, AC006273, AC004185, AP000031, AC007878, AC004655, AC004914, AF030453, AC006088, AC004970, AC004671, AD000812, AL050318, AC005088, AL022324, U47924, U63721, AC000379, AL133245, AC007066, AL022315, AC005726, AC005324, AC000086, AL133243, AL031278, AC008044, AC005255, AC002126, AF024534, AC005480, AC020663, AL121653, AL031597, AL009051, AL049759, AC005578, AL008715, AC007360, AP000109, AP000044, AP000012, AC005251, AF111168, AC006025, |
| HCWLH78 | 1452 | 935908 | 1 - 354 | 15 - 368 |   |
| HCWLH79 | 1453 | 959458 | 1 - 433 | 15 - 447 |   |
| HCWLH80 | 1454 | 577886 | 1 - 387 | 15 - 401 |   |
| HCWSB09 | 1455 | 923573 | 1 - 235 | 15 - 249 |   |
| HCWSB30 | 1456 | 771897 | 1 - 496 | 15 - 510 |   |
| HCWSB65 | 1457 | 728360 | 1 - 326 | 15 - 340 |   |
| HCWTA02 | 1458 | 919258 | 1 - 341 | 15 - 355 |   |
| HCWTA59 | 1459 | 531422 | 1 - 221 | 15 - 235 |   |
| HCWTB01 | 1460 | 861850 | 1 - 358 | 15 - 372 |   |

|         |      |        |         |          |  |
|---------|------|--------|---------|----------|--|
|         |      |        |         |          | Z98052, AL132777, AC005017, AL022163, AP000065, AL035405, U91325, AL096678, AC007226, AF019413, AP000687, Z54072, AC006047, AL031347, AP000513, AC005746, AL034420, AC009510, AC007993, AL002232, AC006509, AC002312, AC005200, AC005332, AC007350, AC004079, AC005049, AC002522, AC004461, U780211, AL035422, AC005277, AC005921, AC005899, AB022785, AC005081, AC004144, AL079342, Z93020, AC005952, AL022330, Z72006, AC005015, AC005544, AL078581, AL117354, AC002558, AC003013, AL049830, AC004228, AC003681, AP000555, AL031311, AP000303, AL031659, Z85986, AC005031, M87889, AC004999, AC005790, AL035088, AC007666, AC006965, AC005089, AF190465, AC005796, AL023803, AC006117, AL034548, U62292, AC004983, AL033521, AL133448, Z96776, AC002314, AF045555, AC004967, AC005670, AC004854, AL031846, AC004477, AC005071, AC004770, AC005747, AC002364, AP001172, AL049749, AL109984, AC005911, AC005300, AC005619, AF152365, AL031774, AC004542, AC004596, AC007011, AC007055, AC004033, AC003950, AC006515, AC006254, AL049856, AC004865, AC007731, Z98744, AC002302, AC002036, Z68323, AC004891, AP000564, AP000353, AL022313, AL109613, AC005519, AC004526, AC005969, AC002540, AC006138, AL035413, AC006146, AC005102, AC006261, AC004851, AL049780, AL110502, Z75407, AP000688, AL050350, AC004966, AC004651, AL246003, AP000347, and Z98044. |
| HCWTB08 | 1461 | 920509 | 1 - 317 | 15 - 331 | AL057485, N83963, N87188, N83707, AC006993, AF045432, U48697, AL243486, U48699, U39066, AR018815, AF102850, AF001863, AF061744, AF011573, X99052, Y16299, X99058, X99051, X99055, X99060, and X99057.  |
| HCWTB11 | 1462 | 965024 | 1 - 328 | 15 - 342 |  |
| HCWTB13 | 1463 | 861029 | 1 - 347 | 15 - 361 |  |
| HCWTB14 | 1464 | 657621 | 1 - 315 | 15 - 329 |  |
| HCWTB25 | 1465 | 677748 | 1 - 429 | 15 - 443 | AL045970, AF034803, and AL049694.  |
| HCWTB31 | 1466 | 697615 | 1 - 465 | 15 - 479 |  |
| HCWTB33 | 1467 | 702129 | 1 - 543 | 15 - 557 | AL341548, AA167659, AA716348, AL798489, AA490183, AW274346, AL345654, AW419262, AL613280, AW193265, AW438643, W47183, AL350211, AL341664, AA446657, AA577906, AA551503, AL375710, AA719805, AL688846, AA973803, AA350859, AA599920, AW193432, AA049642, AA483223, AL211385, AL754638, AA486414, AL792518, AW408707, AA601222, AL962050, AA586458, AL061334, AA970213, AL619997, AW118338, AL002834, AL814735, AW080134, AA828712, Z97196, AC002470, AP000045, AC003957, AC006946, AP000501, Z94277, AC007685, AL049569, AC002531, AC004996, AC007274, AC002347, AC005295, AC005291, AL002315, AC005632, AL002375, AL049795, AL049712, AC003569, AC007191, AC007919, AC002430, AL031666, AL008718, AC005696, AL121748, AC007014, AC000313, AC006241, AC004019, AL133371, AC007384, AL008627, AC018769, AC009247, AC005231, AL080243, AC005900, AC005746, AC004987, AC004884, AL096701, AC005393, AC004584, AC007151, AC007128, AL050342, AP000113, AC005778, AC008372, AC003007, AR036572.  |



|          |      |        |         |          |   |
|----------|------|--------|---------|----------|---|
|          |      |        |         |          | U91328, AL031123, AC005004, AL121603, AC004895, AC008059, AF0045555, AC006006, AC007387, AL022163, AC007666, AC005899, Z98744, AC007298, Z69917, AC004972, U95742, AC005037, AL133004, AC006153, AL022323, AC001977, AL031255, AF200465, AC008079, AC005734, AL133021, AC0049709, AC006344, AL135744, AL031257, AF000140, AL034351, AL139054, AL035411, AC004814, AC007564, AC005261, AC005784, AL022316, AC0050581, AF067844, AC005971, U91321, AC005871, AC004859, U63630, AC007216, AC005071, AC006501, AL049766, AC007676, AC005859, AC004453, AC005839, AC004448, AC004765, AL117258, AC006211, AC008115, AC005209, AL109865, AC004522, AC007308, Z98051, AP000088, Z73967, Z98200, AC004815, AL023494, AP000065, U18399, AC005089, AC003072, AC005944, AC006449, AC002385, Z68284, AC007225, AC002307, AC004029, AP000459, AC008134, AC004167, AP000117, AL049759, and AC002310.  |
| HCWTFB36 | 1468 | 529499 | 1 - 405 | 15 - 419 |   |
| HCWTFB38 | 1469 | 732440 | 1 - 340 | 15 - 354 |   |
| HCWTFB56 | 1470 | 853009 | 1 - 474 | 15 - 488 |   |
| HCWTFB65 | 1471 | 861848 | 1 - 401 | 15 - 415 |   |
| HCWTFB77 | 1472 | 771887 | 1 - 434 | 15 - 448 | AC005045.   |
| HCWTFB83 | 1473 | 730832 | 1 - 365 | 15 - 379 | AC004963.   |
| HCWTF05  | 1474 | 840954 | 1 - 304 | 15 - 318 |   |
| HCWTF11  | 1475 | 966513 | 1 - 734 | 15 - 748 |   |
| HCWTF19  | 1476 | 668358 | 1 - 353 | 15 - 367 |   |
| HCWTF72  | 1477 | 760898 | 1 - 349 | 15 - 363 | AL679759, AA313133, AA548692, AL065043, AA968509, AL362442, AA092862, AA128969, T60940, T39390, AL624990, AL620548, F00211, W44359, AW029574, AA904211, AL143653, AL289050, AL284092, H25626, AL254508, AL251696, AA302812, AA564256, AA598608, AW054936, F25640, AA814719, AA515929, AL042869, AA021139, AA557984, AA728911, AA857812, AA779018, AL132929, AA633565, AA457482, N57709, AA437402, N73060, AL917053, AL341664, AA700481, AW029269, AL560054, AW080772, AC006241, AC005755, AC004626, AC007066, AD000092, AC007055, AC009399, AL049636, AL031056, AL049643, Z92540, AC007376, U62317, AC005081, AL049779, AC002350, AC010170, AC005180, AC004832, Z98949, AC004686, Z92541, AB009666, AC004938, AC009181, AC005015, AL021393, AL049540, AC004623, AL117355, AC005920, AL035683, AC005071, AC007151, AC016026, AC004983, AL117330, AP000553, AC006285, AC002088, AC005093, AC008064, AC005826, AC005751, AC009721, AC005065, AL049871, Z98304, AC007421, AC010582, AL034549, AC004383, AC008000, AC005829, AC022517, AL049780, AL022329, AL008582, AP000692, AC006236, AC005690, AL022165, AC005599, AB015355, AL021407, AL022316, AC002073, AC005291, AC007541, AC006127, AC002563, AL035659, AC006388, AC008124, AC006121, Z98052, AC006539, AC006277, AC006966, AC005231, AC005736, X51956, AL022396, AC000003, AC005978, AL031315, AC002538, AC006323, AC005666, |

|         |      |        |         |          |   |
|---------|------|--------|---------|----------|---|
| HCWTG01 | 1478 | 915863 | 1 - 451 | 15 - 465 | AC007766, AC005874, AF134471, AC002476, AP000495, AC005102, AC006077, AC005519, and Z82215.   |
| HCWTG15 | 1479 | 659860 | 1 - 539 | 15 - 553 | T09124, H29110, AC007239, and AL117258.   |
| HCWTG26 | 1480 | 681271 | 1 - 542 | 15 - 556 |   |
| HCWTG30 | 1481 | 954579 | 1 - 184 | 15 - 198 | N83963, A1657485, N87188, N83707, U19066, U48696, AF045432, A1243486, U48697, AR018815, X99036, X99052, Y16299, X99058, X99051, AF102850, AF001863, AF061744, X99055, AF011573, X99060, and X99057.   |
| HCWTG44 | 1482 | 657911 | 1 - 559 | 15 - 573 |   |
| HCWTG45 | 1483 | 662482 | 1 - 372 | 15 - 386 |   |
| HCWTG60 | 1484 | 740078 | 1 - 372 | 15 - 386 |   |
| HCWTG66 | 1485 | 754823 | 1 - 426 | 15 - 440 |   |
| HCWTG77 | 1486 | 924107 | 1 - 292 | 15 - 306 | H54210, AA594169, T94094, T94176, A1445316, A1762836, AA601422, A1821390, AA054639, AC004263, Z99943, U95740, AL021546, AC004596, AC005412, AL132777, AC005372, AC018769, AC002091, AC006441, AL021394, AC005696, AC008372, Z85987, AL022476, AL008726, Z97200, and AP000556.                           |
| HCWTG81 | 1487 | 773341 | 1 - 339 | 15 - 353 |   |
| HCWT125 | 1488 | 669935 | 1 - 421 | 15 - 435 |   |
| HCWT133 | 1489 | 701757 | 1 - 321 | 15 - 335 |   |
| HCWT138 | 1490 | 576883 | 1 - 355 | 15 - 369 |   |
| HCWT144 | 1491 | 689971 | 1 - 384 | 15 - 398 |   |
| HCWT147 | 1492 | 720023 | 1 - 341 | 15 - 355 |   |
| HCWT154 | 1493 | 723080 | 1 - 263 | 15 - 277 |   |
| HCWTJ01 | 1494 | 915878 | 1 - 322 | 15 - 336 |   |
| HCWTJ50 | 1495 | 724072 | 1 - 297 | 15 - 311 |   |
| HCWTL24 | 1496 | 676906 | 1 - 311 | 15 - 325 |   |
| HCWTL25 | 1497 | 598511 | 1 - 428 | 15 - 442 |   |
| HCWTL51 | 1498 | 725482 | 1 - 425 | 15 - 439 | AA493760, AA494202, AA362037, R10297, AC003003, AC004084, AC003669, AP000344, AC004967, and AC003010.   |
| HCWTL52 | 1499 | 573539 | 1 - 321 | 15 - 335 |   |
| HCWTL58 | 1500 | 697623 | 1 - 380 | 15 - 394 |   |
| HCWTL69 | 1501 | 960597 | 1 - 440 | 15 - 454 | AW393605, A1526146, A1541503, A1526179, A1557778, A1541501, A1526154, A1541531, A1541493, A1526185, A1557718, A1557740, A1557747, A1541516, A1557797, A1541487, A1557735, A1557779, A1541515, A1526178, A1541489, AB010555, V00124, V00125, J00036, J00037, J00034, J00030, J00038, J00032, and K00133. |
| HCWTL78 | 1502 | 760707 | 1 - 217 | 15 - 231 | AC004539.   |

|         |      |        |         |          |   |
|---------|------|--------|---------|----------|---|
| HCWTL85 | 1503 | 836155 | 1 - 426 | 15 - 440 | <p>AA635433, AA302982, T1936, AL249688, AL635325, AA515742, AA603264, AL049643, AA015948, AI587479, R70883, AL245679, AA368659, F31867, AA568204, AA570740, AA436066, T07878, AA229988, T49933, AI198718, AW051819, AA550959, AI289055, AA229159, AW304699, AI038304, AA609153, AA661948, AA516206, AI754567, AI509100, AW192599, N28624, AI754105, AI755214, AI821805, AW028950, AW188742, AW243945, AI791659, AI821056, AI808307, AA666295, AA167293, AA936718, AI792092, AC004216, U91321, AI124731, AC005358, AC002395, AC003070, Z98941, AI111168, AP000513, Z84469, Y10196, AL049776, AC007637, AC004859, AL021394, AC003037, AC005972, AC004913, AL022721, AC004686, AC006479, AF030453, AL049569, AC004765, AC005962, AL022238, AC005510, AC004382, AF001552, AF067844, AC005031, AL035090, AC005212, AC005049, AP000521, AC003954, AC005921, AL021918, AC005231, AC005632, AC007308, AC004832, AC003007, AL049760, Z92244, AF029308, AL109758, Z85986, AF109907, AC004139, AP000501, AC004694, AC005899, AL031431, AC005815, AL080243, AC006455, AC003665, AF196969, AC009509, AC006077, U80017, AL133243, AC006430, AC006050, AC006487, AC006449, AL023575, AC006026, AL121658, AL049709, AC005192, AC005015, AC005081, AL031255, AC004491, AL133245, Z98950, AL121653, AC004020, AL035455, AC007934, AC005325, AC004620, AC004383, AC002312, AL034429, AL109798, AC004816, AC006581, AL031848, AL049694, AC005562, Z82198, AC004890, AL034423, AC004797, AC007437, AC004526, AC003990, Z98743, AC005913, AF130343, Z99716, AC005274, Z98036, AC003009, AL031733, AL109827, AL049795, AL031575, AL033530, AC006211, AC007731, Z82181, AC005070, AC007687, Z85996, AP000116, Z98946, AC007899, AC004865, AL109627, Z93020, AC004583, AC005696, AC009721, Z97053, AL031311, AL031681, AC002429, AC004783, AC007388, AF049895, AC005754, AC005160, AC005288, AL035400, AC004477, AL050318, AC007690, AC000379, AC002558, Z97195, AC005412, AC004584, AC004662, AC005901, AL132777, AC005088, Z97054, Z95152, AC002565, AC007617, AC004998, AC005089, AL023553, AP000694, AL049712, AC005829, AL133353, Z99496, AL031121, AC005189, AP000665, AC006007, AC004019, X87344, U80460, AL022336, AL139054, AC002350, AC002044, AL035684, AC006965, AL049872, AC006571, AC009294, AC002347, AC006006, AL139165, Z82188, AC009247, Z84466, Z98200, AC005900, AC003992, AC008134, AB003151, AC003101, AC002059, AC004990, AC007052, AC006120, AC005500, AC005881, AC006600, AC005920, AL034549, AC005225, AC009946, AC007065, AB026898, AL121754, AC005695, AC007533, AC005291, AC020663, AL135783, AL022163, AC005736, AJ010770, and AL031286.</p> |
| HCWTL16 | 1504 | 661509 | 1 - 378 | 15 - 392 | AA852413.   |
| HCWTO06 | 1505 | 934912 | 1 - 347 | 15 - 361 | <p>AA666332, AL287475, H77530, AA640410, AA640430, H93453, AI049508, AI366993, AA536016, AW020893, AA478355, R99851, AW360845, AW376931, AI873852, H70076, AI079936, AA704393, W52505, AW168420, AI783581, AI732120, AA680243, R98221, H70076, AI110595,</p>  |

|         |      |        |          |   |
|---------|------|--------|----------|---|
|         |      |        |          | AL207465, H06140, AL120343, AA961035, AA493894, AA574079, AW020088, AP063221, AA829036, AL311647, AP932599, AA449997, A085242, AW170729, AL037554, AA915988, AW438339, AL038072, AW023149, AA573631, AL121235, A12822479, AL0360043, AC003102, AL078463, AC004382, AL021331, AL031602, U96629, AC002511, AC006539, U47924, AC005209, AC005529, AC004525, AL022165, AL034549, AC002470, AC006465, AL008635, AL035450, AC004743, AL031848, AL035587, AF050154, AL033517, AC006946, AL035691, AC006965, AC007666, AL133448, AC004466, AL031575, AC004787, AC005954, AC004019, AP000700, AC003029, AC004217, AL135744, AC007199, Z68870, AC007842, AC005952, AP000088, AC002457, AC000052, AL021918, AF053356, AC006271, Y18000, AC000159, X69951, AP000352, AC006430, AL049694, AC004386, AC008115, AC006064, AL022476, AL049830, Z98884, AC004526, AL050341, AC005295, AC001072, AC004752, AC005180, AL031053, AC005512, U62293, AC005821, AC007681, AC007225, AC006115, AL031281, AL031229, AC004797, AC001131, AC005772, Z86090, AC003042, AC005884, AC004520, AP000365, AC005102, AC002996, AP000547, AL031286, AC003982, AC006261, AC004257, U95742, AC005736, AC004485, AL132712, AC005903, AC005585, AP000031, AC004551, Z97183, AC008122, AC005829, AC002377, AP000204, AP000126, U07000, Z98941, AC002425, AP000516, AL121603, AC007993, AC006211, AL139054, AC016026, AL049836, Z82208, AC007216, AC005057, AP000338, AP000201, Z98742, AC005908, AC000244, AC005305, AC008041, AC004602, AC005179, AC005670, AC005078, AL049761, AL031737, Z98743, AC004741, AC004694, AL035458, AC004972, AP000216, AC006449, AP000097, AP006111, AC007055, U07562, X77738, AC005920, AL031376, AP000252, Z77249, AC007536, AC004771, AC006511, AL049779, AL096791, AC005099, AC005486, AC005933, AC002119, AC004611, AL109755, AL049759, AC005971, AL021393, AC006441, AL021391, AC006236, U91318, AP000134, AP000212, Z83840, AC005913, AC006160, AP000553, AC004999, AC004686, AF196971, AL050348, AL031311, AC006155, AL049776, AC005899, Z93783, AC005081, AL078621, AC002045, AL020995, AC007688, AC005235, AF129756, AC005476, AC000353, AC009247, AC005049, AC005088, AL035692, AC007011, AL049632, AF001549, AC003963, AC005280, AL133485, AL035423, AF207550, AC004453, AC007685, AC011331, AC008116, AC005330, AL031433, AL034379, AC005562, AL021528, AL031657, AC007308, AC0005764, AC005060, AC006011, AC002115, AC005911, Z84486, AC006996, AC005758, AC002544, AC006479, AC005756, and AC000066. |
|         |      |        | 15 - 412 |   |
|         |      |        | 15 - 398 |   |
|         |      |        | 15 - 393 |   |
|         |      |        | 15 - 425 | AA843187  |
|         |      |        | 15 - 207 |   |
|         |      |        | 15 - 375 |   |
|         |      |        | 15 - 420 |   |
| HCWTO29 | 1506 | 660457 |          |   |
| HCWTO35 | 1507 | 706525 |          |   |
| HCWTO52 | 1508 | 726444 |          |   |
| HCWTO60 | 1509 | 681257 |          |   |
| HCWTP13 | 1510 | 656678 |          |   |
| HCWTP22 | 1511 | 674158 |          |   |

|         |      |         |         |          |  |
|---------|------|---------|---------|----------|--|
| HCWTP76 | 1512 | 7314.38 | 1 - 515 | 15 - 529 | Z52525, and Z25531.  |
| HCWTP77 | 1513 | 529346  | 1 - 399 | 15 - 413 | AL035403.  |
| HCWTP90 | 1514 | 788663  | 1 - 380 | 15 - 394 | AA410788, AW130427, AW140111, AA583394, AA644090, AI923052, N23504, AA610509, AA574442, AW148507, AT753113, AW023111, AA191418, AI085867, AL040054, AI123396, AA003530, AA440997, AI962030, AI066646, AW238253, AL037910, AI1370475, AS533408, AA659232, AI056177, AA659535, AA601327, AI251576, AA578621, AI278972, AI587583, AI587565, AI908093, AA630672, AL037632, AA833896, AI821987, AA714110, AI732869, AI086603, AW402711, AA579427, AI583466, AA833875, AA526683, AA557982, AA847508, AA702729, AA715814, AA570588, AW188427, AA526326, AW190302, AI279417, AA613624, AI016704, AI755202, AA629540, U48696, J00083, M37468, AF031078, AF030876, U67822, AI109798, U67820, AC004216, AC004408, AC002288, AI109627, AC005104, AF134726, AI020993, AB003151, AC000070, AL023575, AC007376, AC002364, AC005102, AC000353, AC005089, AP000502, AC005520, L78833, AC005305, AL020995, AP000691, AC005529, AC005005, AP000076, AC006023, AC005015, AL040757, Z85986, AC004962, AL040872, AF001550, Z95116, Z97183, L11910, AL031680, AP000689, AL035684, AC004050, AC0006511, AC009247, AL133448, AL049766, AC004938, AC007690, AC004834, AC005952, AC005180, AC002546, U91323, U07563, Y18000, AF045555, AC002316, AC005988, AC000039, AL022320, AC003043, AL031056, AP000688, AL022311, AL035659, X76498, Z84469, AC004817, AL022327, AC005291, Z49235, AC005057, AC004967, AP000031, AC002395, AC007298, AC005081, AL136295, AI109801, AL121603, AL139054, AC002306, AL031276, U48697, AC006344, AC004859, AL049569, Z82178, AC003098, AC004813, AC007057, Z85987, AC007510, AP000049, AC005581, AC004883, U85195, AL020997, AC005933, AC002072, U47924, AL121769, AC006132, AL034429, AC004644, AC007450, AF053356, AL035587, AC005227, AC006509, AL078638, AC002219, AC003101, AC004525, Z98048, Z98200, AC004821, AC002369, AP000065, AL133163, AL133246, AL078581, AC008040, AP000311, AC005694, AC002472, AC005261, AC007052, AE000658, AL031295, AC007686, AC005722, Z99755, AC005064, AC005884, AC006538, AC006530, AC005667, AL021328, AP000306, AL035420, AC005037, Z82206, AC006239, AC007435, AL008719, AF093117, AC006953, AP000167, AP000120, AP000052, AC002492, AC005014, AF019413, Z98946, AC000604, AL080243, AC006077, AB023048, Z95152, AP000117, AC005071, AL109758, AC007999, AC002563, AC005736, AC004596, AC006211, AC004253, AC005500, AL049692, AC000118, AC007899, J03071, AC004804, AL049776, AC007731, AL022323, AC000004, U07562, Y10196, AC004815, AP000338, AC004797, AC006111, AC003982, AC005940, AL121653, AC0012085, AC006121, AC005841, AC006275, Z93244, and AL031662. |
| HCWTP91 | 1515 | 661551  | 1 - 521 | 15 - 535 | F05533, F05160, AF095687, and AC008039.  |
| HCWTR08 | 1516 | 958791  | 1 - 334 | 15 - 348 |  |
| HCWTR34 | 1517 | 729290  | 1 - 333 | 15 - 347 | AA904275, AA593471, AW020198, AW167154, AA112924, AA381762, H65464, AI285521.  |

|         |      |        |         |          |   |
|---------|------|--------|---------|----------|---|
| HCWTR77 | 1518 | 659506 | 1 - 380 | 15 - 394 | <p> AL186365, AA808998, AL598003, AW268277, H48546, AW117860, AA365586, AA610255, F12893, AL287964, AA745302, AA664604, A952786, AA372106, AA310557, AL287921, AL754037, AL859280, AL799421, AL039187, M86588, AW166611, AA779783, F15524, AL014378, F26152, AA381747, AA809425, AL762575, AA574442, T80500, AA342188, AL728937, AA653139, AL452836, AW069450, AA528441, AA076427, AL832865, AL244356, AW383952, AL754689, AL291961, AA569202, AA740403, AL342622, AA579278, AL863399, AA987962, AA837715, AL581486, AL598060, AL071418, AA457754, AW103415, AL016704, H79156, AW189367, AA043218, AC005940, M87914, AC005874, AF134471, AC002565, AC005082, AC007055, AL121657, AC006539, AL006995, AL132987, Z84480, AF053356, AC007226, AC004522, AL136504, AC007151, AF045555, AL035448, AL035405, AL021918, AC005033, AC005954, AP000031, AL031677, AL049780, AL109799, AC005378, AC006137, AC005625, AL031983, AC007263, AL121655, AC002073, AC006544, AC005740, AC006480, AL080242, AL109627, AP000248, AL022332, AC005914, AC002350, AC005081, AL031846, AP000359, AC005924, AC005913, AC008040, AP000354, AL034421, U02068, AC009498, AL031133, AC003083, AC005520, AP000507, AC004921, AL022237, U85195, AC007041, AE000658, AL080239, AB000882, AC020663, AC004841, AC004660, AC004837, AC006468, AC007285, AC007308, AC008033, AL021808, AL121934, AF111168, AC002470, AL031985, AC005358, AC005412, AC002996, Z94056, AL003147, AC006023, D00591, AC004527, AL035542, AC004049, AC005288, AP000210, AP000132, AF091512, A51133, A76958, AF037222, AL049589, AC005409, Z97053, AL008635, AC004400, M87918, AC005796, AL031428, AC007225, AC004859, AP000694, AC007848, AF002993, AC006538, AC007536, AC006080, Z83826, AC002492, AL031053, AL031733, AC002558, AL049557, AC005803, AL135744, AP000255, AC003101, AL049697, AL121658, AL022320, AL021978, AC007011, AC004741, AP000152, AC006501, AC005880, AC004051, AL034555, AF205588, U73023, AL133448, AL020993, AL133246, AP000213, AP000135, AC005907, Z69917, AC007057, AL035089, AL133382, AC016025, AL049776, AC004685, AC004882, AC005821, AC007687, AC007388, D86566, AC004686, AP000208, AP000130, AL109984, AL031255, AC007270, AL022578, AC005291, AP000247, AL049636, AC005993, AC003688, AC005971, AC002394, AC006449, AC005755, AP000498, AC005180, AC004019, AC000381, AL049759, AC006055, AL031681, Z82206, AC005764, AC0004150, AL034420, AF222685, AC007537, AB020858, AL049604, AC006455, AC005274, AF190465, AL035450, AC004996, AC004672, AC007899, AC0033663, AC007686, AC004812, AC000015, AL008726, AC007735, Z49237, AL035413, D87675, Z49236, AC000353, AC004771, AC005215, AF038458, AL035587, Z73496, AL008525, AL031666, Z99570, AC006126, AC002319, AP000513, AC006285, AC007707, AC002316, U75931, AC005858, AC004821, AP000512, AC007371, AC004072, AC007993, AC005696, AC006977, AC005513, Z82182, AC007021, and AL027326. </p> |
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|          |      |        |         |          |   |
|----------|------|--------|---------|----------|---|
| HCWTS15  | 1519 | 654317 | 1 - 350 | 15 - 364 |   |
| HCWTS84  | 1520 | 669926 | 1 - 348 | 15 - 362 | AB017567, AC005231, AC005911, AL121603, and AC005736.   |
| HCWTT20  | 1521 | 669430 | 1 - 422 | 15 - 436 | AW148697, and N75845.   |
| HCWTT45  | 1522 | 576720 | 1 - 429 | 15 - 443 |   |
| HCWTT47  | 1523 | 706577 | 1 - 342 | 15 - 356 |   |
| HCWTT63  | 1524 | 542409 | 1 - 421 | 15 - 435 |   |
| HCWTT81  | 1525 | 712302 | 1 - 410 | 15 - 424 |   |
| HCWTT89  | 1526 | 786693 | 1 - 393 | 15 - 407 |   |
| HCWTT12  | 1527 | 934902 | 1 - 537 | 15 - 551 |   |
| HCWTTU83 | 1528 | 780917 | 1 - 437 | 15 - 451 | AA468131, A1820920, AW303196, A1696962, AL042853, AA493695, A1284640, AA468022, AA507824, AA478048, AW301350, AA478355, A1821670, AW270382, AA478209, AW149313, A1687343, A1873990, AA618452, AW020340, AA857486, AW274349, A1524360, AW302903, AW275510, A1963720, AA568869, AA515334, A1110844, A1369580, AA515549, F12561, AA847952, A1270117, A1409588, F00107, A1311927, F18164, A1457197, A541423, AA019312, AA683258, AA468244, A1305766, AA523838, AA720702, AW021735, A1216990, AA661921, AW275971, AW301995, AA618349, A1247199, A1042753, AA640410, AA640430, A1046725, AA483771, AA515909, A1037040, A1567076, A1925579, A1038606, AA490183, A1345157, AW023149, AA834707, AW075948, AA580808, AA192740, AW303002, AA178953, H70994, AW245747, AW028429, AA584581, AA908687, AW193265, A1801482, AA491650, AW088846, AA719292, A1053911, A1188604, D44638, A1038072, AA388001, AA551552, A1567842, A1821499, AW163293, A1732865, AA724333, A1281881, AA548058, A1064952, AA521323, AA521399, AW440545, H18354, C04454, A167055, A1133164, A138455, AA493894, AA631507, A1039145, AA351056, AW340844, A1744826, A1254913, A1056177, A1865905, AW702729, AA780944, A135357, AA523242, AW264934, AW103758, AW069510, AA491862, AA428792, AA410788, AA747070, A1580250, H23653, A1134957, AC007744, A121603, AC006511, AC006371, AC005701, AC004987, AC008372, U95742, AC006965, AC006323, AC005242, AL009029, AP000459, AC007216, AC005194, AL049874, A1035405, AC007274, AC000353, AC006999, AC003003, A1031003, AB020862, AC007376, AF038667, AC009044, AL009179, AC005004, AC006211, AC005772, AC005884, AC007382, A1031666, AC004903, A132826, Z98941, AC006336, D83989, AC004686, AC005230, AC004861, A1239322, AC006998, AC004531, AF001549, AC005146, AC010202, AC004966, AC007666, AC004650, Z98744, A1035448, AC001231, AC007684, AL050318, AC005209, AC006479, AC005026, A1109985, AC006044, AC004858, Z93023, A1050308, AC005330, AP000055, AP000170, AC007270, Z99716, AC005291, AC003692, AC006058, AC004865, AC005768, AC007298, AC004549, U57008, AC005815, AC002299, AC002984, AC004960, AP000962, A133445, AC005011, AC006004, AL034420, Z82198, AC005358, AC004611, AC007226, A1031668, AC004010, AC000052, A1118510, A133399, AC005180, A1031429, AC008079, X54179, |

|         |      |        |         |   |
|---------|------|--------|---------|---|
|         |      |        |         | AC002425, AC005968, AC005567, Z82210, U75931, AL022240, AF196779, AP000049, AL023575, AC004945, AL049869, AL132985, AL049829, AL031446, AC004901, AC005787, AC006203, AC007051, AP000311, AC008055, AF165142, AC002402, AL023579, AF091512, AC004879, AC004690, AL096774, AC007488, AC002531, U18392, AL109865, AF091512, AL031681, AC008064, AL121694, AC007685, AC008080, AC004151, AL109847, AC004019, AC008101, AL136295, AL022163, AC005529, AC004741, AC002312, AL022400, AC005921, AC002558, AL109755, AC002378, AL021877, U62293, AF053356, AC004979, AC006512, AL023755, U81831, AC005193, AF090940, U07562, AC000025, U18394, U91322, AB020859, AC006205, AC008633, AC005527, AP000168, AC010072, AC005535, AC005411, AC004821, AC007263, AF042090, AC003982, Z68756, AL079340, AC006039, AL096712, AC003688, AC007919, AC007324, AC005488, AC012627, AC007011, AC002395, AL031281, AC004259, AC004070, AL023284, AC008009, AL031767, AC008119, X75335, AL049795, AL049797, AJ006996, AC012599, AL078603, AC007021, AC005520, AC005154, AL030997, AC004638, U91319, AC005376, X87344, AL031012, AP000693, AC002289, X54181, U67831, AF049895, AC008127, AL121934, AC007308, AL021808, AC010170, AC004972, AC004600, AL031390, AC005084, AL049709, X76666, AC006344, AC002073, X55926, AL035703, AP000088, U57009, AC002350, AC005253, AC009227, AC002564, AL022322, AC004884, AL023879, U95740, AC000111, AC006285, AF015148, AB020868, AC007848, AL049780, AP000959, and AC006530. |
|         |      |        |         | AL044544, AA291234, AA284361, AW361644, and AB020718.   |
|         |      |        |         | N83991, N84712, N88601, N88782, N89520, AA093224, N84830, AA247964, N84855, N83992, N86694, AA095559, AA247827, N84048, H58760, N84718, N55698, AA096066, N81993, N83168, AA096046, AA471338, AA095641, N88518, N84829, AA093861, AP000528, AP000529, S78798, AF103726, U48696, AF045432, AF032922, AF102850, AR066487, AF039698, U39066, AJ243486, and AR066480.   |
|         |      |        |         | AC006013.   |
|         |      |        |         | AL044458, AA610644, H57752, H57751, W27084, AL114772, AL890971, Z99716, AC005180, AL031311, AC006271, AC004883, AC000353, AC007226, Z84469, AC009399, AC005763, AC005015, AD000092, AL031427, AC007993, AC005520, AF111688, AF165926, AC005703, AC006057, AC002461, AC004019, AC004881, AC007666, AL023803, AL050334, AC005013, AC004477, AC007193, AL035420, AC000052, AL031286, AL021707, AC007240, AL109984, AC004859, AC005829, AC005244, AC005940, AC005081, AL049538, AC006449, AC002299, AC004228, U73479, AC006139, AP001068, AL031584, AC008125, AL049872, AL023113, AC007057, AC005231, AC009542, AF053356, AL031678, AC002544, AP000558, AL035423, AJ011930, AC002312, AL008723, AP001053, AC002425, AL023284, AC007421, AC002350,   |
| HCWTU84 | 1529 | 666642 | 1 - 153 | 15 - 167  |
| HCWTU17 | 1530 | 725862 | 1 - 416 | 15 - 430  |
| HCWTU62 | 1531 | 742696 | 1 - 564 | 15 - 578  |
| HCWTU73 | 1532 | 574912 | 1 - 535 | 15 - 549  |
| HCWTU88 | 1533 | 861846 | 1 - 543 | 15 - 557  |
| HCWTU19 | 1534 | 668355 | 1 - 399 | 15 - 413  |



| HCWUA23<br>HCWUA43 | 1535<br>1536 | 57964<br>715000 | 1 - 407<br>1 - 369 | 15 - 421<br>15 - 383 | AC005243, Z95116, U47924, and AL117352.<br>AC005837.<br>T07420, D51809, AA760656, AA808064, AA715709, R82432, T03401, AA715507, AA6609616,<br>AA632836, AA411741, W39287, W60522, AA445951, AA427808, F10773, AA812542,<br>AA320941, AA745373, AA461274, AA397415, AA513484, N30876, AA577706, NA4146,<br>AA181931, AP903464, AA244267, A1249365, A1174489, A1884922, R51995, AA741403, W06522,<br>AA325787, AA601390, AA343014, T41164, AA610381, N27615, AA470567, AA6044926,<br>AA907222, AA594179, AA708096, AA078428, AA487720, AA668166, AA774119, C15362,<br>T41132, AA730359, A1252010, A1252880, A1583448, AP03448, AA351128, H29960, AP1799421,<br>AA058499, H94979, AA740571, AA648560, AA130855, AA216375, AA508026, R94909,<br>A1671077, A1929298, A1929825, AA206594, AA376358, AW157180, AA663437, N40760,<br>AL135018, AA635413, AA716440, AA594746, AA598740, AA600127, A1866377, N78065,<br>A1038577, AP33478, AA508444, AA010973, R83878, H53109, H52053, N72439, AA532732,<br>AA084439, AA827383, AA351808, AA653503, N73724, A1872073, AW342143, AA745302,<br>AW272389, AA649488, AC006388, AC003081, Z99127, AB003151, X69951, AB020865,<br>AP003300, AP000045, AP000113, AC006509, L13711, AC002401, L44140, AF111163, Z74739,<br>AC004408, AC004616, AL050321, AF069074, AF125348, AC002425, AC005017, Z94056,<br>AC005338, AP000565, AL008707, AP000557, Z98885, AF181897, AL096843, AL031431,<br>AC002544, MB4472, AC004755, U34879, U63721, AL021707, AC000024, D87011, AL078596,<br>U91326, AL031664, D88270, AL050404, AP000563, AP000133, AP0000211, AC004687,<br>AF012339, AC005514, AL031602, AC002375, AL034350, AL079303, AC005015, AL096766,<br>AL049761, AC005837, L35532, Z68162, AL031657, Z82203, AC008115, AC006004, AC005280,<br>M22469, M18000, AB022537, AP000353, AP000354, U91323, AC005740, AC009802, AP000556,<br>AF112441, AL031186, AC004583, AC007666, AP000497, AC007510, AL133249, U52112,<br>AC000052, AC005722, AC004019, AR062818, AC005355, AL050332, U89337, AL031672,<br>AL050341, AC002565, AC006146, AC005316, AC005026, AC005011, AC005317, AC007486,<br>AC021092, AC000086, AC006273, AP000228, AP000140, AC006966, AL031005, AC005996,<br>AC004000, L78810, AC005486, AP000088, AF129756, AP000427, AC000032, AP000555,<br>AP000291, AP000256, AC005372, AC005868, AP000098, AP000111, AL034451, AC005208,<br>AC006571, AC007226, AC005846, U17576, AB001907, AF195658, AL023694, AC005543,<br>AL096794, U82668, AL049538, AL035659, Z82195, AC006014, AC004817, Z98044, AL033504,<br>AL121613, AC007993, AC002063, AC005488, AL049780, AC006530, U68061, U950909,<br>AL049856, AC005775, AC004825, AL021154, AC004253, AL009031, AL021578, AC002336,<br>AL135744, AL050140, AP000699, AH029020, AP000348, U07563, AL049734, AC004659,<br>AL035603, L132800, Z99716, AC005602, AL035551, AC004070, AC002412, AL035455,<br>U52111, AL021808, AC005747, AL035089, AC007637, AL135960, AL131016, AL110505,<br>AC004750, AC005568, AC005744, M26434, AL033398, AF045555, AP000502, AP000161, |
|--------------------|--------------|-----------------|--------------------|----------------------|---|
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|---------|------|--------|---------|----------|---|
| HCWUA90 | 1537 | 706532 | 1 - 360 | 15 - 374 | AC003042, AC002115, AL033538, AC008730, AL031781, AF001054, AC004835, AL035696, AC005244, AC005005, AC002352, AC005828, AC007014, AC012384, AC016027, AF013476, AC016830, AC003101, AC007450, Z83844, AC007917, AC004185, AC006047, AF001643, Z82248, AC004156, AC004560, AC006561, U62293, AC003026, AL030502, AC005031, AL031284, AL033530, AC005480, AC005250, AL021328, AC005057, AF000509, AF030453, AC004706, AC006344, AF207550, and U91327.   |
| HCWUB03 | 1538 | 923556 | 1 - 446 | 15 - 460 | AL633478, AA652675, AA849390, AL044438, AA693433, AF114095, AL080086, AA630476, AL567976, AL623505, AA369494, T41235, AW162604, AW439455, N24046, AL812187, AA502660, AA502509, AA167178, N70293, AL869094, AW085751, AL014872, AA341391, AA659303, AL621605, AA650288, AL640905, AL625042, AA599712, AA622637, N62478, AL042731, AA507499, AW328185, AL1214574, R43468, AA829795, AL690379, AA595661, T62614, AA854460, AA648942, AL500151, AL192771, N92752, AL935827, AL540319, W04238, AA228268, H65404, AL753131, AC005048, AC007904, AL050307, AC004966, Z69650, AC004802, AL078581, AL049843, AC005839, AL050318, AP000497, AL132987, AC005516, AF031076, AL035684, AC004967, Z93931, L47224, L47225, L47226, AC002401, AL031295, AC005288, AC004213, AL022723, AL096716, X59875, AF060911, AC010349, AC004856, L09706, AP000250, Z98272, AC005257, AC005202, Z84721, AP000251, U62293, U63721, AC007536, Z81364, AC003109, Z98051, Z93244, AC005994, AC004874, Z99291, U78027, AC005057, AP000211, AP000133, AP000030, AP000502, AP000065, AL049757, AL035420, AL021393, AL034423, AL008721, AL035458, AL034420, Z98742, Z93017, Z93928, AC002039, AC007845, AL050343, AL035422, AC005343, AC003665, AP000248, U07000, AL024507, AL132716, AL049646, AP001046, AC005137, AL117337, Z98884, AL031584, AP000501, AC016025, AC007686, AL13163, AC005726, AL049779, AC005291, U91322, AC004019, AF205588, AL050323, AC006274, AL133404, Z97183, Z97184, AC004125, AC002504, AC004668, AC002433, AC004962, AL033527, AC004073, AC007879, Y14692, AP000269, AP000103, AP000033, Z97876, AC006162, AL109798, AC005361, AF200465, Z85986, AC004805, X87344, AC004526, AC005681, Z48051, AC002049, AC006125, AC002054, AL049540, AL035588, AL049690, AC002472, AC007664, AC006115, AC008018, AL121652, AL135744, AL049872, AC004000, AC000045, AC005158, AC005180, AL023178, AC003030, AP000152, AP000010, AC005231, AC004852, AC005822, AL049569, AF049776, AF031078, AF209704, AC005484, AL043233, U21936, AR022305, M14949, AF030876, AL007874, M31061, M33764, AC002551, X16277, M81740, X69907, AR007118, AF106656, AL023577, AL031845, U73640, AC005779, AC002103, AC004754, AC007201, AC005175, AC005944, Z81367, AC006167, AC005372, AC000401, AC005937, Z82901, AL049576, AL031321, U71148, AL021453, AC005755, AL133382, AC004776, AC006468, AC004771, Z97352, AL031597, and |
| HCWUB08 | 1539 | 958770 | 1 - 392 | 15 - 406 |   |

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| HCWUB74 | 1540 | 765274 | 1 - 346 | 15 - 360 | AP000503.  |
| HCWUB83 | 1541 | 855008 | 1 - 434 | 15 - 448 | AA804937, A1554512, AW084364, F03946, AL049761, Z93241, AL049631, AC018633, AC006443, AC004966, AC002045, AC005280, AC005484, AL035450, AC005940, AC005086, AC005562, AL132642, U91318, AL031670, AC006946, AC004217, AC005670, AL050307, AL031577, AL008628, AF047825, AJ251973, AC005305, AC006581, AC006516, AC004967, and Z81365.  |
| HCWUC39 | 1542 | 572977 | 1 - 419 | 15 - 433 |  |
| HCWUC64 | 1543 | 588122 | 1 - 300 | 15 - 314 |  |
| HCWUC94 | 1544 | 721663 | 1 - 487 | 15 - 501 |  |
| HCWUD64 | 1545 | 746332 | 1 - 348 | 15 - 362 | AI902698, AL121235, R76463, A163479, A1828710, AA679936, A1732120, AA680243, AA478355, AA493894, A654781, A1873852, AA366312, AL119649, AA018823, F00231, H84435, F00984, A1088768, F05324, A1049508, AL121207, AA618596, AW003867, AA012964, R86218, AA219150, A1576932, C14877, C14616, T84449, AA728990, AC002395, AC005071, AC004656, AC004159, AF038458, AL035405, AC004760, AC010205, AC005409, AC000159, AC005576, AC004983, AC006111, AC006050, Z85986, AC005484, AL121595, U95090, AC004841, AP000365, AF001550, AC004019, AC004253, AC006947, AP000514, AC004084, AC007637, AC006468, AL049781, AL050317, AC020663, AF111168, Z98752, AL034429, AC002404, AB003151, AP000688, AC007308, U73167, U90094, AC005399, AC0009181, AL117338, AF200465, AC005619, AL031651, AC006211, AP000010, Z99716, AC007371, AL031311, AC004520, AL080243, and AC005943.   |
| HCWUD83 | 1546 | 827340 | 1 - 429 | 15 - 443 | AI657485, N87188, AA825827, U48697, A1243486, U48696, AR018815, AF045432, U39066, AL031276, AC004223, and AC004596.  |
| HCWUD85 | 1547 | 529221 | 1 - 282 | 15 - 296 | AC004582.  |
| HCWUD93 | 1548 | 574856 | 1 - 305 | 15 - 319 |  |
| HCWUF05 | 1549 | 849929 | 1 - 213 | 15 - 227 |  |
| HCWUF30 | 1550 | 691734 | 1 - 458 | 15 - 472 | AA585101, A1525431, A1525556, A1540967, A1541374, A1541365, AA585476, Z30131, A1541535, AA585439, A1541514, D61254, T23957, R29445, R28735, A1557731, C16300, T23985, AL037436, AC037435, A1541523, A1546891, A1547039, A1525306, A1557731, C16300, T23985, T41289, R29177, A1525316, A1546945, A1526073, Z28355, A1557807, AL040463, AL039915, AL043612, AL041197, AL040155, AL041346, AL041096, AL047012, AL041358, AL041277, AL041163, AL041098, AL040621, AL043538, AL041324, AL040464, AL04162, AL041086, AL043496, AL041296, AL041233, AL043444, A1541307, A1541017, T23888, AL045725, A1525320, AL041140, C16305, AL040193, A1557262, AL047219, AL041227, AL047057, A1526140, AL047170, AL040119, AL047036, AL040553, AL041292, AL041051, AL047183, AL040322, AL041131, AL046330, AL041133, AL041238, AL041142, AL045817, AL040529, AL040625, AL040510, AL043467, AL040149, AL044186, A1557782, AL044037, AL040091, |

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| AL040128, AL040168, AL040255, AL040285, AL040342, AL040332, AL040617, AL045684, AL040745, AL040370, AL043677, AL040238, AL0406442, AL040839, AL041752, AL043375, AL044165, AL043492, AL041602, AL045920, AL038838, AL044074, AL041635, AL045990, AL040458, AL044199, AL043743, AL040090, AL040263, AL040294, AL040329, AL040082, AL044272, AL041186, AL040148, AL041730, AL041523, AL043627, AL041159, AL046392, AL041374, AL040052, AL043845, AL039338, AL042135, AL040404, AL038983, AL039316, AL043923, AL043814, AL043848, AL041459, AL043570, AL043537, AL041577, AL044201, AL044258, AL046850, AL038532, AL040768, AL037727, AL0406994, AL040414, AL040571, AL0406914, AL040253, AL142134, AL037341, AL037323, AA583453, AL050619, AL040576, AL045753, AL044274, AL079878, AL049018, AL040444, AL041390, AL056967, AL045857, AL057799, AL0451013, AL041278, AL041168, AL038822, AL045671, AL039744, AL041246, AL044125, AL041347, AL044529, AA174170, AL046327, AL049069, AL046828, AL040472, D57491, AL040075, AL046875, AL045685, AL041955, AL038761, AL056138, AL052528, AL037295, R29218, AL045150, AL045989, AL080031, AL057238, AL0526184, AL041508, AL046147, AL045134, AL042096, AL041210, D55233, AL052618, AL039643, AL039360, AL037335, AL045211, AL037343, AL079852, AL041345, AL039433, AL0526194, AL037279, D57186, AA585155, AL041205, AL051509, AL057734, C15189, AL057796, AL043440, AA585356, AA585434, AL0526196, AA283326, C14723, AL053660, AL043941, AL057727, C16293, AL040920, AL052653, R28895, R45895, D61185, R28967, R28965, AL0525339, AA585440, AL057763, R28892, AL057740, AL134524, Y16359, D78345, AL038762, A25909, AL062871, AL044005, AL044004, AL038555, AL0582186, AL062872, AL062873, AL044003, AR017907, A20702, A20700, A43189, A43188, A85395, A85476, A98767, A93963, A93964, I63120, A98420, A98423, A98432, A98436, A98417, A98427, X83865, I44681, AR037157, I66487, A91750, A84772, AL044007, A84776, A84773, A84775, A84774, AR054109, AR067731, AR067732, A86792, A58522, I15717, I15718, X81969, U94592, D50010, I13349, A60212, A60209, A60210, A60211, A18053, M28262, I08396, E03627, I48927, A90655, A02712, A77094, A77095, A81878, A95051, A18050, A23334, A75888, I70184, A64973, A60111, A23633, AR007512, AR031566, I84553, I84554, I00682, A11623, E00609, A11624, A11708, E01007, AL0361, I06859, I08395, AR043601, A35536, A35537, A02135, A06663, A02136, A04664, A11245, I18895, I03331, A02710, E12615, AR035193, A92133, E14304, A07700, AL13392, AL13393, I62368, AR031488, I13521, I52048, A27396, I49890, AR027100, I44531, I28266, I21869, A91965, I44516, A70040, E16678, A82653, E16636, A93016, A24783, A24782, A95117, A58524, A58523, AR038066, AF149828, Z32836, I01995, I25027, I26928, I44515, I26928, I26930, I26927, I08051, Y09813, AR008429, I60241, I60242, I05558, AR009151, A20699, E00696, E00697, I00813, I66482, I66485, I66483, I66484, I66497, I66496, AR027099, I66486, D13509, A20237, AR051652, AR051651, X07299, AL230902, I19525, E12594, A1243486, D13509, A23738, I08389, D13316, AL230972, AB025273, AR051957, AL231009, A70872, A70869, AR035975, AR035977, |  |  |  |  |
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|         |      |        |         | AC005913, I118302, A1231028, E17098, I66495, I66494, AR064707, A22734, AR022273, AR035974, AR035976, AR035978, A120951, AR054723, A1230867, A1230845, I36244, X55486, AR01864, AR018815, AR018815, A06631, S60422, A1231011, AF045432, AR063812, A24548, U39066, U48696, A24546, Y14219, U48697, I05845, X82786, A1230996, A1244006, X76012, I03669, I03668, A16035, AR009152, I33632, AC001381, X99056, I66481, A83642, A83643, I15353, X99052, A68112, A68104, Y16299, X99058, X99051, AF011573, I66488, I66489, I66490, I66491, I66492, I66493, A83151, E03654, A05993, and A05975.   |
| HCWUF40 | 1551 | 703804 | I - 313 | 15 - 327   |
| HCWUF46 | 1552 | 656680 | I - 435 | 15 - 449   |
| HCWUF54 | 1553 | 933212 | I - 232 | 15 - 246   |
| HCWUF84 | 1554 | 686711 | I - 162 | 15 - 176   |
| HCWUG43 | 1555 | 697616 | I - 388 | 15 - 402   |
| HCWUG59 | 1556 | 573548 | I - 396 | 15 - 410   |
| HCWUG93 | 1557 | 920882 | I - 229 | 15 - 243   |
| HCWUH17 | 1558 | 662478 | I - 280 | 15 - 294   |
| HCWUH25 | 1559 | 677747 | I - 397 | 15 - 411   |
|         |      |        |         | AA632445, A142340, T98279, AA719535, and AC004749.<br>AA374775, A1252506, AA643442, AA508298, A1580906, AA834731, H45320, AA223932, A1471887, AA601318, A1016704, A1057350, AA446767, AA643448, AA643444, AA808796, AA643452, AA643454, AA643457, R95060, AA429371, AW169581, T40452, AA501762, H10143, A1205009, A1340641, AA602438, AA090344, H10859, A1039187, AA812094, A1812082, AW265073, AA630834, A1037040, AA341263, AA814778, AA669434, W69364, AA808263, A1298246, AA610491, A1344812, A1932599, A1334464, AW268973, A528603, A1754661, AA493864, AA664790, A127226, AC002364, AC005159, Z93018, AC006213, A1049736, Z99716, AC005972, AF015722, AC007541, AB000880, AC004180, AC004517, AP000507, AB004082, AC004534, AC007556, A1117137, AC007052, A1133445, A1023284, AC008033, A1031132, Z98742, AC005548, AF205588, U91326, AC004448, AC007281, AC007542, A1022313, A1096773, Z85986, AC005901, A1021069, AC004042, AC010206, Z69838, AF196969, AC002544, AC005193, AF165926, A1229041, U57645, Z82181, Z68162, A124731, AC006537, A1031257, AC004558, AC012627, A1031904, AF015720, AP000511, AP000097, A1049776, A1079339, AP000154, AP000012, A1034370, AC000961, AC006487, A1080242, A1049635, AC009721, AC004968, AC005288, AC005841, AC002036, AC004099, Z93020, AC004257, A1022237, AC004508, A1099963, A1031055, A1132987, AC005751, Z98950, AC007879, AC003041, A1031659, AC007051, Y11493, AB020715, AC007066, A1031685, AC004024, AP000495, AB016897, A1133163, A1031277, AC005152, AB007955, A1109610, AC006167, A1031057, AC006027, A1021453, AC002551, A1035419, AC006141, AC007324, A1022320, AC005153, AC004849, AC008101, AC004821, AC008079, AC007041, AC006538, AC004125, AC005291, AC004933, A1117342, AC005832, AC005531, A1049777, Z86090, AC005498, AC004934, AC002470, AC004227, AC007240, AF064861, A1033527, |

|          |      |        |         |          |   |
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|          |      |        |         |          | AC005277, AC006120, AC006070, AC009464, AC005378, AC007032, AL133242, U60600, AC004671, AC005375, AP001136, AL035072, AL040653, AF091512, AC003662, AL022163, Z83838, AL050308, AC008394, AF048990, X83116, AC007917, AB020350, AP000202, AC004799, AC007191, AP000241, AL031662, Z97629, AC007038, AL096799, AP000503, AP000504, AC004519, Z99128, AL020997, Z97192, AL035469, AL022238, AF129756, AL135744, AL133244, AL021940, AC007368, AC004896, AL031985, AC006016, AC005535, AC004477, AC004967, AL022324, AL022315, AC006077, AF130343, AP000143, AC004996, AC006978, AC005681, AL022316, AC006050, AL139054, AF196972, AR038761, AL022476, AC006064, AL118498, AC005257, AL035450, and AP000558. |
| HCWU1H85 | 1560 | 752790 | 1 - 366 | 15 - 380 | AI460103, AA574077, AL049780, AC007055, Z84469, AC005187, AL133246, AL022163, AP000336, AP000215, AC003667, AP000156, AC004841, AL035653, AC005746, AP000014, Z99496, AC009721, AL021453, AC004024, AC004584, AC004616, AB003151, AP000688, and AL049776.   |
| HCWU1J10 | 1561 | 964028 | 1 - 390 | 15 - 404 |   |
| HCWU1J17 | 1562 | 662483 | 1 - 374 | 15 - 388 | C14614, AL199949, AL189004, AP963707, AA525071, C75012, AJ010597, AC005730, Z69650, AC005516, AC002465, AC005726, Z82190, AC005406, AC005530, AJ006995, U47924, AC006547, Z94277, AC001551, AC005664, AC005859, AC002350, AC005971, AC006013, AL109801, AL049843, AC000075, Z93244, AC005031, Z98950, U80017, AB023048, AP000511, AC002347, AL022723, AC007386, AL122003, and AC004477.   |
| HCWU1K13 | 1563 | 656679 | 1 - 378 | 15 - 392 |   |
| HCWU1K56 | 1564 | 733122 | 1 - 443 | 15 - 457 | AF186189.   |
| HCWU1K77 | 1565 | 771883 | 1 - 513 | 15 - 527 | AC007681.   |
| HCWU1K95 | 1566 | 615550 | 1 - 266 | 15 - 280 |   |
| HCWU1L03 | 1567 | 923572 | 1 - 478 | 15 - 492 |   |
| HCWU1L19 | 1568 | 668361 | 1 - 301 | 15 - 315 |   |
| HCWU1L24 | 1569 | 968380 | 1 - 413 | 15 - 427 |   |
| HCWU1L32 | 1570 | 523358 | 1 - 301 | 15 - 315 |   |
| HCWU1L36 | 1571 | 849901 | 1 - 424 | 15 - 438 |   |
| HCWU1L47 | 1572 | 720024 | 1 - 513 | 15 - 527 |   |
| HCWU1L69 | 1573 | 740373 | 1 - 244 | 15 - 258 | AI657485, N83963, N87188, N83707, U39066, U48696, U48697, AR018815, AF045432, AF011573, AF102850, AJ24486, AF001863, AF061744, X99056, X99055, X99052, Y16299, X99058, X99051, Y07542, X99060, and X99057.  |
| HCWU1L74 | 1574 | 690750 | 1 - 354 | 15 - 368 |   |
| HCWU1L83 | 1575 | 527566 | 1 - 543 | 15 - 557 | F35659, AW074398, AA308806, AL499094, AW069807, F31204, AA365347, AL110770,   |
| HCWU1N05 | 1576 | 928191 | 1 - 287 | 15 - 301 | AI914706, AA558697, AL284640, AL471481, AA515128, AA228329, F36773, F19258, AA318652,   |

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| T11998, AA729264, A1610159, AA551509, F37286, AA077935, R73292, AA515435, F35113, AA580662, AA593060, A1536555, W60516, A1003172, AA059154, AA362700, A1202126, A1561335, AA584749, N17124, A1742771, F32894, A1830390, A1053672, A191262, AA559290, A1298710, A1334443, AA340003, A1446601, AA363501, A1963720, A1015912, A1557323, A1863283, AW264959, A133986, A1886629, A1561060, AA366035, AA584858, AW264973, AW265197, A10658235, T07451, F26152, AA098922, AA077817, AA366820, A146464, A1286356, H64777, F29989, A1349874, F28576, A1656008, A1688846, A1110822, AA530859, A292574, H64560, AA095511, F25135, A176924, AW337985, AW088058, A1046409, A166815, AA578141, A1079910, AW193265, A1041368, AA428414, A1350211, A17130799, A1445436, A1890052, A1624698, A1901937, A1919432, A1963786, A1138455, A1281881, A1358229, A1879000, AA536661, A1061334, A1282907, A1788544, A1886176, A1431303, AA434484, A1287528, AW406755, H16048, A878495, AW238016, AA747472, A1079645, A1365988, A1613280, AW303876, A1064864, A1276827, A4344959, AW406447, T16592, A1951889, A1951928, A1341664, AW339687, A1042856, A1281903, AA775049, AA381914, A1326265, AA973575, A1635272, A1072433, AA605274, AA838309, AW339568, T40338, AA377730, A1120483, AA743956, AA654627, A1761471, A1474713, A1648558, A1216799, AA491814, A1626678, AA745582, AA361344, A1859251, A1714595, A1871992, F18974, AA652057, AA649642, AA641989, AA856981, A1434706, A1565245, AW406162, F24284, AA669840, AA826032, A1887483, A1755641, N43757, A1287651, AA744074, AA745355, AA744088, A1079935, A1962050, AA557325, W95976, AA837755, AW264969, W95841, A1041690, A1266576, AA557879, AW029038, AA610491, A1733208, A1344844, AA579249, AW327360, A1375710, A1917271, AW408717, AA569187, AA310158, AA228420, AA450109, AA515051, AW370270, AA843430, A1312149, AA229785, A1358343, A1814735, A1745410, A1929531, A1872421, AW162489, AA378623, H92005, A1493634, A1246409, A177061, A1148271, A1279165, R68874, A1279700, AW022046, AA664535, A1037914, A1270343, A1717277, AA654968, A1003743, A1921649, A1039958, A1653886, N23649, R93061, AA654771, A125788, N25296, AW236342, F32705, AW439558, R91994, A1809028, A1299050, A1890923, A1904894, A162049, AA650244, A1890570, A1376100, A1042420, A1210687, AA553436, A1016000, A1053816, A1054246, A1042090, A1008173, A10005552, A10007682, A10005815, A10005011, A1109985, Z99495, M87918, A1049562, U34879, A1901172, A1132994, A1000558, A10005592, A1023799, A1096861, A1006367, A1900557, A1009516, A1007285, A1003992, A1148319, Z97876, A1000118, Z91024, Z98172, A1004427, A1900555, A1079340, A131770, Z82210, A1007537, A1007488, A1006255, A1031428, A1217148, A1031542, Z65382, A1005619, A1000263, A10001100, A1006344, A1000036, A1006143, A1264031, A1000018, A1000159, A1003866, A10008550, Z98884, A1005324, A10006128, A1049845, A1109807, A10002364, A1034402, A1023040, Z97200, U02058, A1003006, Z84190, A1005412, Z68881, A1034452, A1049697, A121603, A1005495, A1031116, A1004495, |  |  |  |  |
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| AL049643, AC006006, Z82198, AL049588, AC004993, AC007151, AC006045, AL031054, AC004893, AF023460, AC008928, AC005856, AF020503, LI3713, LI3706, LI3714, M87916, AC00542, AL035089, AL049869, AC005066, AF077058, AC004861, AC006277, AF181896, AC000095, AP000239, AC009660, AC007632, AL1109622, AL110502, X55925, AC007191, AC006323, Z95113, AC004016, AC002379, AC004638, AC006251, AP000402, AC004894, AL080283, AL049776, AL031803, AC007666, X75335, AC006336, AL021453, AF072099, AC006374, AC004184, AC003971, AC006071, AC004935, AC004111, AC002482, AC006205, AC004466, AC010072, AC006019, AC007099, AC007690, AC005154, AL033381, AC008040, AC005331, AC000052, AC001164, AP000306, AC007114, AP000299, AL023882, AC004799, AP001042, AP001043, AP000047, AC004940, AC006561, AL008709, AL031732, AL118497, AL096774, AF003627, AL13399, AL008728, AC007160, AL035593, AL031777, AC006525, AL132776, AC002564, AC005250, AL031686, Z98043, AL049635, AB020859, AP000045, AP000113, AP000115, AF017257, AL035446, Z82975, AC007043, AC004987, AC004918, AL031276, AC004130, AL031256, AC004222, AC005002, AL006998, AL049709, AC006315, U80017, AC008062, AL031224, AC004848, AP001038, AL031650, AL022724, AC004931, AC004453, AC004695, AC006195, AL078603, AC004990, AL023803, AC007510, AC004626, AC006213, AC010205, AL031584, AC005912, AC005409, AC009178, AC006305, AP000567, AL133238, AC003986, AC006043, AC005284, AC009891, AC007298, AF001549, AC005069, AC004381, AL034384, AC002523, AC002429, U66059, AC004526, AL078477, AC005084, I51997, U02063, AP001068, AC005745, AL050341, AC006476, Z97056, AC003070, AC005099, AC007262, AC005157, AC009802, U18391, AC007277, AC007773, AL079295, A1229042, AC005808, AC005251, AC003104, AC000159, AL049761, AC005541, AL109760, AC002401, and AL035458. | 1577 | 861840 | 1 - 480 | 15 - 494 | AL049643, AC006006, Z82198, AL049588, AC004993, AC007151, AC006045, AL031054, AC004893, AF023460, AC008928, AC005856, AF020503, LI3713, LI3706, LI3714, M87916, AC00542, AL035089, AL049869, AC005066, AF077058, AC004861, AC006277, AF181896, AC000095, AP000239, AC009660, AC007632, AL1109622, AL110502, X55925, AC007191, AC006323, Z95113, AC004016, AC002379, AC004638, AC006251, AP000402, AC004894, AL080283, AL049776, AL031803, AC007666, X75335, AC006336, AL021453, AF072099, AC006374, AC004184, AC003971, AC006071, AC004935, AC004111, AC002482, AC006205, AC004466, AC010072, AC006019, AC007099, AC007690, AC005154, AL033381, AC008040, AC005331, AC000052, AC001164, AP000306, AC007114, AP000299, AL023882, AC004799, AP001042, AP001043, AP000047, AC004940, AC006561, AL008709, AL031732, AL118497, AL096774, AF003627, AL13399, AL008728, AC007160, AL035593, AL031777, AC006525, AL132776, AC002564, AC005250, AL031686, Z98043, AL049635, AB020859, AP000045, AP000113, AP000115, AF017257, AL035446, Z82975, AC007043, AC004987, AC004918, AL031276, AC004130, AL031256, AC004222, AC005002, AL006998, AL049709, AC006315, U80017, AC008062, AL031224, AC004848, AP001038, AL031650, AL022724, AC004931, AC004453, AC004695, AC006195, AL078603, AC004990, AL023803, AC007510, AC004626, AC006213, AC010205, AL031584, AC005912, AC005409, AC009178, AC006305, AP000567, AL133238, AC003986, AC006043, AC005284, AC009891, AC007298, AF001549, AC005069, AC004381, AL034384, AC002523, AC002429, U66059, AC004526, AL078477, AC005084, I51997, U02063, AP001068, AC005745, AL050341, AC006476, Z97056, AC003070, AC005099, AC007262, AC005157, AC009802, U18391, AC007277, AC007773, AL079295, A1229042, AC005808, AC005251, AC003104, AC000159, AL049761, AC005541, AL109760, AC002401, and AL035458. |
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|         |      |        |         |          | AC004890, AC005622, AL121655, AC006312, AP000501, AC005231, AC007934, A1246003, AC004655, AC005086, AL133448, Z93930, U07503, AC004020, Z95115, AP000555, AC007030, AL133371, AL021154, AC004525, AL031774, AC002551, AC007786, AL035415, AP000491, AC005071, Z99916, A1003147, L78810, AL050318, AC002312, AC005578, Z84476, AC005327, AL109939, AL078581, AL049757, AC002476, AL109984, AC005619, AC008044, AC00505412, AC005594, Z99943, AC005088, AL023807, AC000039, AC007917, U63721, AF001549, AC003101, AC006965, AL024498, U85195, AC005288, AL031846, AC005924, AC005081, Z98743, AC006512, AL109623, AF111168, AL049712, AC007637, AF129756, AP001052, AC004832, AL034548, AC006449, Z68273, AL031282, AC005844, AP000557, Z98941, AF124523, AC007421, AL023553, AC006254, AL049869, AF196970, Z98048, AL022163, AL049650, AL049776, AL022476, AL031721, AF030453, AC002300, AL020997, Z93017, AC005914, AC005784, AC004150, AC002563, AC005099, AP000275, AL031255, AE000658, AC002565, AC004257, AP000355, AL031685, AL031283, AC004913, AC007731, AC004777, AC006536, AC004967, AC006509, AC005755, AC005500, AC006960, AL031311, Z99716, AC003003, AC005971, AP000252, AC004611, AC006050, AC007226, AF024533, AF126403, AC005067, AC006950, AL109847, AC006261, AC004382, AL008715, AL031848, AP000553, AP000105, AP000037, AC005746, AC004584, AL109628, Z93244, AL121825, AC007707, Z85986, AC004448, AC005049, AC002302, AC004084, AC005399, AC004815, AL022313, AC007283, AC004560, AL034402, U95739, AL021940, AC009428, AP000466, AL049653, AL035400, AC001231, AC004813, AC006211, Z83851, AL034423, AC004883, AC006160, AC004755, AL022316, AL121603, AC005726, AC004209, AC005874, AP000121, AF134471, U91323, AL109798, AC007868, AC007011, AC002368, AL136168, U73634, AC005779, AC004905, AL031845, AC002544, AL049576, AC007240, AC008123, U29895, AC008033, AC008018, AC007686, AF184614, AC002314, and AC005972. |
|         |      |        |         |          | AW440373, AW139492, AC004150, Z98747, AC007204, and AC006539.   |
|         |      |        |         | 15 - 453 |   |
|         |      |        |         | 15 - 278 |   |
|         |      |        |         | 15 - 497 |   |
|         |      |        |         | 15 - 393 |   |
|         |      |        |         | 15 - 556 |   |
|         |      |        |         |          | AI054414, AF001552, AC005209, AC006312, AL022313, AF134726, AL009181, AF109907, AC005940, AL021937, AC002477, Z99716, AC005288, AC004382, AP000553, AF111168, AL022315, AC007227, AP000557, AC004975, D87675, AL034420, AC004922, AL031311, AC004149, AL022320, AC005081, AC006241, U07563, AL031255, AL008582, AC008372, AC004447, AL080243, AL035495, AL022237, AC005696, AC005067, AL031281, AC005300, AC005102, AL031602, AC005057, AF030453, AC004876, AC005565, AL096774, AC004841, AC005264, AC0016830, AC005335, AL034423, AC005730, AC003038, AF129756, AC0040883, AC006211, U62293, AL133448, AB023049, AC005484, AC004531, U89337, AC005088.   |
| HCWU081 | 1578 | 756978 | 1 - 439 |          |   |
| HCWU094 | 1579 | 746328 | 1 - 264 |          |   |
| HCWU002 | 1580 | 968431 | 1 - 483 |          |   |
| HCWU077 | 1581 | 719064 | 1 - 379 |          |   |
| HCWU043 | 1582 | 714529 | 1 - 542 |          |   |

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|---------|------|--------|---------|----------|---|
|         |      |        |         |          | AC006538, AC005874, AF134471, Z73359, AC006449, AC004796, AC006344, AC007216, AC005899, AC002425, AL034417, AL031005, AC006480, AC005619, AC006026, AC005089, AC007308, AL049569, AL035681, AP000556, AL049539, AC005519, AF196969, AC005280, AC007686, AL035587, AP000115, AC005193, AC002301, AC007421, L78810, AC003007, Z83844, AC005531, AC007387, AL031666, AL049757, AF031078, AC004685, AC005015, AC004854, AC002375, AL031589, AC005261, AC016027, AC005190, AC002404, AB003151, AP000142, AP000248, AC005377, AC006273, AC005225, AF030876, AC005666, AP000689, AL035249, AC009330, AL035072, AP000305, AC009247, AC004752, AC008101, AC004263, AC009516, AC005670, AL049636, AL021546, AL021155, and AL031662. |
| HCWUT83 | 1583 | 958776 | 1 - 379 | 15 - 393 | AL361673, AC002094, and AC005955.   |
| HCWUT95 | 1584 | 711186 | 1 - 492 | 15 - 506 |   |
| HCWUT95 | 1585 | 919224 | 1 - 292 | 15 - 306 | AL914239.   |
| HCWUT95 | 1586 | 690351 | 1 - 615 | 15 - 629 | AA165563.   |
| HCWUT95 | 1587 | 542330 | 1 - 445 | 15 - 459 | AL652927, AB002803, AP000241, AF124731, AP000201, AP000097, and AF026109.   |
| HCWUT95 | 1588 | 855815 | 1 - 318 | 15 - 332 | AF097485, and AC005089.   |
| HCWUT95 | 1589 | 676902 | 1 - 386 | 15 - 400 | AL653905, H73720, AA008083, AA069022, M78005, AL300507, AL031228, AC006130, Z96641, Z85986, AC005089, AC004106, and Z96498.   |
| HCWUT95 | 1590 | 861836 | 1 - 474 | 15 - 488 | AA122111  |
| HCWUT95 | 1591 | 614859 | 1 - 348 | 15 - 362 | H82979, F00112, AA662982, AP63797, AA516310, AL199949, AL189904, CL4614, AA524604, N59038, AC004242, AC007666, AL031670, AL021918, AC004797, AP000346, AL109914, AC004020, AC003667, AC004019, AC005529, AC006449, AF165926, AC004887, AL008723, AL133163, AC007371, U47924, AC005214, Z93023, AC005288, AC006014, AC007055, AC004477, AC007263, U82828, L44140, AL109623, AB023054, AC006547, U80017, AC005664, AL021707, AC000075, AC004081, AC005071, AL031293, AC005031, Z85987, AC005057, AC005752, AC007686, AF205588, Z93017, AC000003, AC004057, AC004929, Z95113, AL008718, AL121652, AC005317, and AL031229.  |
| HCWUT95 | 1592 | 861959 | 1 - 496 | 15 - 510 |   |
| HCWUT95 | 1593 | 661570 | 1 - 307 | 15 - 321 | AA525331, AA431350, AA431634, AA705118, AA526092, AA665517, R79654, W92302, AL733600, AL821775, AA225548, AC007372, AC004802, AC004911, AC006277, AC002395, AC004056, AL133289, AC002394, AL031848, AC004832, AC004752, AL049823, AF019664, AL031657, AL035703, Y13901, AL023807, and AB016897.   |
| HCWUT95 | 1594 | 735736 | 1 - 223 | 15 - 237 |   |
| HCWUT95 | 1595 | 574908 | 1 - 433 | 15 - 447 |   |
| HCWUT95 | 1596 | 662485 | 1 - 340 | 15 - 354 | AL064787, AA669618, AL560413, H82557, AL525319, AF169482, AA525464, AA765736, AA478555, AA974503, AA737432, AL174766, AA610491, AA502866, AA468131, T47970, AW149313, AL866856, AL223604, AW002350, T86545, AL093030, AA846952, AW023389, AW023389, and AB016897.   |

|         |      |        |         |   |
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|         |      |        |         | P07743, AA533819, AL377567, AL377556, AL377505, AA808877, H00814, AL334464, AL284640, AL133297, AA702729, AA581903, AA468022, AL120933, AL038072, AL120927, AA516339, AL471887, AS326372, AL344812, AW104000, AL751216, N41888, AW023149, AL333016, AL039584, AW302087, R44116, AW275671, AL200051, AW302080, AL674174, AA299189, AA533303, AL035819, AW103758, AH73475, AL250083, AW080777, AA493975, AW084466, AL042547, AA583229, AL037040, AW268973, AC007688, Z97988, AC002127, Z68287, AL049835, AL078583, AC006480, AC004764, AL021155, AC000004, AC005968, Z82176, AP000159, AC007016, US3331, AF123462, AL008732, AJ007702, AF061016, AL024509, AC002453, AF134726, AL049776, AC002470, AL049781, AC007102, AC005215, AP001053, AC005412, AL121655, AC004539, AP000208, AP000130, AL031133, AP000247, AC0004805, AL031311, AC005763, AC010849, AC004827, AC004257, AC002309, DS7013, AC000065, Z95704, AC007628, AC007308, AL133485, AL132774, AL034379, AC003977, AL022394, AL031391, AL121852, AC006207, AL049872, Z68226, Z8338, AC005880, AL121823, L29074, AC006210, Z83845, AC003083, AC007252, Z93928, Z84490, AC005245, M36917, AC006276, AC006167, AC004541, AB023050, AC004841, AL035668, AL022328, AP000511, AC007030, AC006965, AC007014, AC005829, AC002381, AC004922, AC008122, Z98052, AL109984, AC010202, AF196779, Z83840, AL050341, Z82975, AC003085, AL031228, AL035398, AL031432, X96683, AC005523, AC006277, Z69714, AL031575, AL023799, Z93930, AC004703, AL031589, AC003682, AC002395, AC002064, AC006230, AP000962, Z97353, AL135744, AC005516, AC003101, AL031673, X97869, AP000348, AC005512, AC002369, AC007666, AC006531, AF030453, AC000052, AB014085, AC004187, AC004455, AP000515, AL034399, AC002386, AC007130, AL022069, AC005019, AL050317, AC007151, AL035494, AC007890, AC005695, AL109839, AF084555, AL078385, AC005060, AL035079, AL009029, AP000476, AR060470, U29953, AC004236, AF176915, AC006576, Z94721, AF107885, Z69705, AC004754, AL049699, AC004139, AC005399, AC007934, AC005088, U96629, AP000049, AP000193, Z95329, Z82210, AP000311, Z83843, Z97205, AP000117, AC004925, AL031681, AL034384, Y10697, AL021546, AC007057, AC004034, U89336, AP000022, AC005072, Z93096, AC003688, AC005049, AC006037, Y18000, AF131217, AC008062, AC005519, Z93931, AC007388, AC005919, AC007546, AC004617, AC006459, AC005284, AC005274, AL133246, AC006449, AC004550, AL023553, AC005091, AL021391, AC007090, AC003006, AC003525, AC005484, AP001172, AC004895, AC004882, AP000355, AC005529, U73633, AC005387, AL035402, AL031257, AC004596, AL035318, AL078615, AC002543, AC005242, AL031313, AC005822, AC004216, U85195, AE000658, AC004019, AL080276, and AL031668<br>AL049775 |
| HCWUV24 | 1597 | 676099 | 1 - 386 | 15 - 400  |
| HCWUV28 | 1598 | 686171 | 1 - 552 | 15 - 566  |
| HCWUV65 | 1599 | 676334 | 1 - 359 | 15 - 373  |
| HCWUV76 | 1600 | 615554 | 1 - 337 | 15 - 351  |

|         |      |        |          |           |   |
|---------|------|--------|----------|-----------|---|
| HCWUW01 | 1601 | 915860 | 1 - 493  | 15 - 507  | AA368835, H50296, H96676, H85763, H84047, AV060273, AP000331, AP000172, AP000057, AP000125, AC004109, AC007687, AF126403, AL035458, AP000688, AC004801, AL035249, AP000687, Z46936, AC005697, AC002425, AC006132, AC005015, AP000439, AP000501, AC005070, Z98950, AC004582, AC007240, AC005887, AC004854, AC004893, AC007535, AL035079, AC007999, AL031729, AP000280, AL031587, AC007637, Z99291, AL049760, AC009263, Z99497, AC007114, AC005871, AP000107, AL031281, AC002472, AL034561, AP000694, AC007664, AB002059, AC007207, and AC004835. |
| HCWUW55 | 1603 | 964086 | 1 - 538  | 15 - 552  |   |
| HCWUW58 | 1604 | 694016 | 1 - 348  | 15 - 362  |   |
| HCWUW69 | 1605 | 882383 | 1 - 378  | 15 - 392  | AC010436.   |
| HCWUW76 | 1606 | 769808 | 1 - 535  | 15 - 549  |   |
| HCWUW84 | 1607 | 782840 | 1 - 349  | 15 - 363  |   |
| HCWUW90 | 1608 | 712303 | 1 - 365  | 15 - 379  |   |
| HCWUW95 | 1609 | 706528 | 1 - 369  | 15 - 383  |   |
| HCWUW02 | 1610 | 852993 | 1 - 541  | 15 - 555  | AC005247.   |
| HCWUW25 | 1611 | 614857 | 1 - 405  | 15 - 419  | W86785, and R09187.   |
| HCWUW78 | 1612 | 773336 | 1 - 451  | 15 - 465  | AC007708, AC009288, AC008132, AP000550, AP000552, AC007664, AC007325, AC007981, AC008018, AC012330, and AC005815.   |
| HCWUW16 | 1613 | 661550 | 1 - 527  | 15 - 541  | AW189204, H64247, R89015, H73207, H62796, H62711, H73281, H95089, T99705, H77855, H77907, R84881, AA203271, and H64246.   |
| HCWUW19 | 1614 | 922920 | 1 - 1082 | 15 - 1096 |   |
| HCWUW26 | 1615 | 681249 | 1 - 309  | 15 - 323  |   |
| HCWUW41 | 1616 | 711771 | 1 - 286  | 15 - 300  |   |
| HCWUW69 | 1617 | 615630 | 1 - 538  | 15 - 552  |   |
| HCWVA18 | 1618 | 849894 | 1 - 350  | 15 - 364  | AI499795, and AW002986.   |
| HCWVA25 | 1619 | 754314 | 1 - 187  | 15 - 201  | N88601, N84855, N83168, N86694, AA095159, AA096066, AA096046, N81993, AA247827, N88782, N83992, N84712, N84048, N84718, N88518, AA095641, N55698, AA247964, N83991, N84830, N89520, AA471338, H58760, N84829, N87898, N87989, N56555, A1243486, U48696, U39066, AF039698, AR066487, AF103726, AF102850, S78798, AF032922, and AF045432.   |
| HCWVA44 | 1620 | 716347 | 1 - 122  | 15 - 136  |   |
| HCWVW94 | 1621 | 793533 | 1 - 659  | 15 - 673  | H57015.   |
| HCWVW59 | 1622 | 770274 | 1 - 438  | 15 - 452  |   |
| HCWVW65 | 1623 | 747324 | 1 - 175  | 15 - 189  |   |
| HCWVW67 | 1624 | 772342 | 1 - 328  | 15 - 342  | AA251067.   |
| HCWVW69 | 1625 | 861830 | 1 - 465  | 15 - 479  | AC002536.   |

|         |      |        |         |          |  |
|---------|------|--------|---------|----------|--|
| HDCAC05 | 1626 | 975255 | 1 - 457 | 15 - 471 | AL134902, AI142131, AL134536, AL119401, U46351, AL119341, AL134527, AL134526, AL119418, U46349, AL043019, and AR054110   |
| HDCAD10 | 1627 | 963330 | 1 - 489 | 15 - 503 | AW272294, AI923458, AI870453, AI635028, AI762528, AI133514, AA565319, AI923451, AI860751, AI923458, AI279417, AI587467, AA133332, AA160363, AI282629, AA877992, AW243793, AI1192440, AA528503, AA528574, N64587, AC007371, AC006241, AC005081, AC004125, AC005696, AC005015, AC007363, AF001548, AI023575, AC005189, AI022323, Z99716, AL049760, AC006511, AC006441, Z95114, AL049569, AC005082, AC005011, AC002288, AC005874, AF134711, AB026898, AC002404, Z85986, AF196970, AC000516, AC002471, AC004905, Z99128, AC005529, AC006965, AC005921, AC007878, AL139054, AL023213, AI109984, AC007285, AL035071, AL034420, AC002314, AC004813, AL022320, AC005839, AI050307, AC006958, AC006312, AB023048, AC002352, AC007055, AC005280, AL021807, AC004882, AC005089, AL049872, AC004491, AC005484, AP000044, Z98941, AC004895, AC004531, AC006121, AI136295, AC007773, AP000697, Z83840, AP000098, AC005409, AC008009, AL035703, U62631, AC004782, AC003378, AP000209, AL049829, AC004686, AP000112, AC002425, AC005578, Z83844, AL022326, AL049832, AL049780, AC005231, AC004910, AC005527, Z97053, AL031311, AC007327, Z83847, AF067844, AC006480, AC004983, AP000696, AC004903, AC007938, AC005697, AI132777, U47924, AC004805, AL031657, AP000248, AF002223, AC004067, AC005943, Z93016, AL096773, AC004966, AL117337, AC005086, AC005237, AL031848, AC005516, AC005755, AC007182, AC005412, AC003695, AL035209, AC006946, AF021707, AC004655, AC008038, AF196971, AC005519, AL049643, AC007225, AL023284, AF001549, AC000026, AC006512, AF181896, U91322, AC002546, AC003108, AC005520, AL009181, AL049576, Z82244, AC004659, AC004797, AC003962, AC004099, AC004098, AF045555, Z81365, AC010200, AF020558, AP000694, AP000568, Z98946, U91326, AC004854, AC004033, AL034379, AC004821, AP000692, AL031670, AL049776, Z99208, AC000025, Z85987, AF030453, AC005255, AL122020, AE000658, AL031597, AC005537, AL022336, AP000086, AL133245, AP000313, AC004967, U91321, Z98304, AC007637, AC006597, AF047825, AC005971, AC002070, AL022401, AC004743, AC006604, AC005088, Z84469, AL021939, AC005207, AC007193, and AL096766. |
| HDCAG86 | 1628 | 852970 | 1 - 389 | 15 - 403 |  |
| HDCAP64 | 1629 | 922818 | 1 - 343 | 15 - 357 |  |
| HDCAV79 | 1630 | 881404 | 1 - 483 | 15 - 497 | AL035541.  |
| HDCAY54 | 1631 | 959750 | 1 - 430 | 15 - 444 |  |
| HDCBO38 | 1632 | 961931 | 1 - 214 | 15 - 228 |  |
| HDDMA83 | 1633 | 926991 | 1 - 759 | 15 - 773 | AW371972, AA85936, and AF038963.   |
| HDDNY79 | 1634 | 933804 | 1 - 443 | 15 - 457 | AL049569.  |
| HDDOC53 | 1635 | 934157 | 1 - 879 | 15 - 893 | AF150417, AI888578, AI826769, AW327712, AI68059, AA628915, AI884992, AA761358, and   |

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| <p>             AI70839, AI382085, AI359894, AA224907, AA234724, AA548422, AA234791, AA831987, AW268716, AW404660, AI344460, AI933178, AA548402, AI826730, AW172286, AA224806, R69361, AA961626, D20106, AA028112, AI421970, AA455772, N19304, AI263331, AI494201, AI043168, AW022102, AW044029, AI923989, AI040161, AI538885, AI440263, AI345347, AI744923, AW088134, AI8084056, AI119457, AI81248, AI312428, AI307569, AI121270, AW148478, AI889168, AI366992, AI002285, AW268072, AW075084, AI10925, AI334884, AI037030, AI131428, AA572758, AA493923, AI343091, AI349226, AI345397, N49165, AI041150, AI468959, AI367582, AI886415, AA420722, AI079094, N29277, AI19863, AI683860, AA98383, AI254226, AI348917, AI696626, AI119511, AI0759828, AW411310, AI046463, AI859464, AW089572, AW020710, AI349957, AI281867, AI554821, AI267185, AI829327, AI800159, AW161579, AI345005, AI631216, AI251485, AI961589, AI887775, AI590603, AI119399, AI539766, AI702301, AI868204, AI042382, AI612885, AI047344, AI609911, AI436429, AI499986, AI915295, AI345745, AI349256, AI312152, AI134259, AW269097, AI885989, AI587121, AI349933, AI312399, AI345608, AI349937, AI566479, AI307543, AI345737, AI348897, AI345251, AW071412, AI307734, AI307708, AI336513, AI312325, AW071395, AI340659, AW071377, AI345736, AI348895, AI307494, AI336495, AI918554, AI340644, H89138, AA805751, AI340627, AI281782, AI334930, AI309443, AI349622, AA600801, AW071380, AI307520, AI582871, AI498579, AI889147, AI340664, AI310592, AI611728, AI282355, AI047042, AI348969, AI345739, AI345674, AW075207, AI036664, AI040586, AI312143, AI345471, AI343037, AI349637, AI345735, AI868163, AI310927, AI267532, AI559752, AI366974, AI307578, AI824375, AI345111, AW020693, AI042544, AI349955, AI312210, AW075093, AW055522, AI312432, AI310930, AI345114, AI312271, AI312357, AI307210, AI345224, AI336662, AI345156, AI345253, AI589267, AI277008, AI036802, AI311159, AI648408, AI690536, AI289542, AI119836, AI955906, AW151136, AI313320, AI310575, AW089689, AI570966, AI312237, AI679959, AI313352, AI251221, AW022682, AI040694, AI036772, AI036718, AI307503, AI036396, AI138406, AI311892, AA012905, AI950664, AI307736, AI340519, AI802372, AW089275, AI340603, AI623736, AW020095, AI349814, AI285419, AI349266, AI344452, AI349787, AI307542, AI340533, AI344938, AI252077, AI045664, AI345370, AI334445, AI312146, AI312339, AI309431, AI340537, AI343059, AI030659, AI348854, AI345258, AI241763, AI023653, AI010277, AI132676, AF061836, I48978, AI050024, A90832, A08916, AI122098, A08910, A08909, AF036268, X63574, AB016226, AF090896, S78214, AF13676, AI050146, I89947, A08913, AI137521, AI122110, AF090943, AF087943, X70685, X52128, A08912, AI101159, U77594, AF065135, Y11587, U68387, AF146568, AI080124, A08908, AI049430, L31396, L31397, I89931, S61953, I49625, AF113694, AF094480, AI110225, U77620, A0868753, S77771, AI117394, S76508, AI122123, I89934, Y16645, I33392, AF118090, AI137648, U78525, A038854, Y10655, AI8777, AI133093, AF089818, AI137529, AI110171, AF003737,           </p> |  |  |  |  |
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|         |      |        |         |   |
|---------|------|--------|---------|---|
|         |      |        |         | AL117585, E086311, U75932, AL137283, AF097996, AL049283, AF111851, M30514, AL050172, U58996, AF079763, AL117649, AF026124, AL096744, 166342, A1005690, A08007, AF207750, AF118064, AF113699, AL137538, AL050116, AL122045, AL050092, AF085809, U00763, U88966, 148979, Y10080, L13297, 126207, AL137640, AL137459, AL050108, A1006417, AL049464, AF118094, AL110196, AL133080, AL122050, AL049314, 117767, 117544, U68233, 192592, Y09972, AF113568, AF0979765, AL137292, X98834, A15345, AF028823, 109499, AL137558, AL117440, A52563, AL133606, A08911, AL133560, AL049300, AF067728, AL080074, AL137560, AF069506, X72387, AF119358, U42766, AF106862, A93016, 189944, AF078844, U95114, AF118092, AL133098, AL110221, U87620, AF090900, Y07905, AL050118, AL096751, AL117435, U91329, AL110280, AL110218, U49908, 100734, AL137463, AF111112, AL080660, AL137556, AF051325, AL117583, AF159148, 103321, AL117457, E00617, E00717, E00778, AL137656, U80742, AL137550, X65873, AL137548, AF162270, AL137276, AL050277, AL122049, X06146, AF118070, AL050278, AL080110, AL138278, AL133557, X92070, E07108, AL133075, AF158248, AL133014, AL133113, AL080126, AL050393, E01614, E13364, AF036941, AF017437, AR034830, 196214, 109360, A1000937, AL122111, A04366, Z37987, AF000301, AF125948, AL080140, AF177401, D16301, U35846, AL110222, A00736, X02773, AL137479, AF081197, AF081195, X72889, AR011880, AC004200, AF026816, E01573, E02319, X81464, X82434, S78453, AF113689, AL137526, S36676, AR038969, AF153205, AL117460, AF017790, E01314, AF090903, A07647, AL137641, AL133565, AF061573, AL080163, X83308, N92439, AF061943, 168732, D83032, AL050170, AL137539, AB019565, L04849, AR068751, AR013797, AL133104, AF110329, AL133067, L19437, AL137557, X87582, and E02253. |
| HDLAC80 | 1636 | 799887 | 1 - 302 | AL035461  |
| HDLAD61 | 1637 | 775541 | 1 - 388 | D82449, AA079011, W15176, D82382, D82521, AF077040, and AF073344.   |
| HDLAH25 | 1638 | 796174 | 1 - 323 | AA404215.   |
| HDLAK03 | 1639 | 923285 | 1 - 201 | AL047643, A1499503, F32734, AA715268, AA683031, A1744739, AA641103, N48131, A1923140, A1341664, A1061591, A1114660, AW157326, F36273, A1890928, A1890570, AA362700, AA847216, A1914706, AA364567, AA551509, A1070201, A0704398, F35113, AA515051, AA658235, A1613261, A1205126, A1041706, A021857, A1553983, AA715362, AA669416, A1608626, AA484148, AA434065, AA578961, AA715270, A1445117, A1955323, F19258, A1624698, A1143242, AA354507, A471572, AW193265, H64777, A1709365, W03190, AL079683, H04821, A1510838, AA514737, A1792287, A1310138, AA580662, A1149915, AW340922, A1432270, A1264743, AA328591, AA333072, A1051551, N43757, AA630352, F28576, A1937850, A1509086, AA973575, A1358343, AW341892, AA548137, AA318652, D58782, A1937985, AA450199, AA878495, AA458804, A1079910, A1307099, A921649, A1445436, A1890052, A1963786, AA569306, A1880168, A1376100, A1079645, AA601270, AW265654, AL1379719, A1110770, T06656, AW074059, A1356904, A1922654, A1564284, R44592,   |

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| AL042856, AL284640, R79496, AL1570138, T56067, AL1557323, T63104, AA843450, AW4006459, AA526755, N54179, AA344959, AA225201, AL1732498, AL160117, AL159251, AL002526, AA226364, AL1708009, AL1859742, AL1471481, AA985038, N69692, AL138265, AL1003172, AL1719014, F31204, AW188544, AW302117, AL1904894, AF150152, AL036552, F33511, AL149874, AW276827, AL1344155, AA3117973, AL4404644, AA308806, AL565582, AL635818, AL287964, AW419839, AL042771, AA315128, AL041368, AL1679379, AL4990904, AL888405, RI13151, AL287528, AL369477, AL679888, AL1759, AL252085, W60516, AA557879, AL252114, AL000155, AP000013, AC006050, AL133371, AC005053, Y18000, AC002056, AC004810, AC004539, AC009178, AC005529, AC006538, AC004998, AL049697, AC004884, AC002116, AC010170, AL110505, AC004806, AC007695, AP000555, AL078621, AC007455, AC003678, AC003689, MI3254, AC003104, AC004682, AL031720, AC004675, AC007402, AC005694, AL003562, AC005527, AL033525, AC004492, L34162, AC007731, AC007537, AC005500, AC003007, AC006023, AC009405, AC005632, AF088219, AC003038, AC004447, AP000745, AP001172, AC006480, U55184, Z93783, AF139813, AC004057, AF123462, AC005899, AC004770, AC004228, AC005562, AC006515, AL035659, AB020668, AL096702, AC004799, AC005064, AC003982, AC005886, AC002347, AL049636, AC005094, AC010205, AC005409, AC005069, AC005575, AC006537, AC005783, AC006271, AC004230, AL078623, U60601, AL006948, AC005785, AC006116, Z99774, AC007064, U62317, AC005358, AC005726, AL035448, AL118497, AC004859, AC004687, AC004645, AC005091, AC005856, AC005486, AC005076, AC009542, AC009330, AC006111, AC002429, AL135879, AL21790, AC010072, AL031432, AC005399, AC018769, AC018767, Z95889, AL031427, AC004988, AB029027, AF18425, AC005725, AC008059, AL021977, AC007536, Z98752, U07563, AP000477, AC002400, AL050318, AC004478, AL049778, AL050307, AP000552, AL031289, Z83838, AC004747, AC020663, AL031283, AF001549, AL109758, Z95114, AC005529, AL031123, AC005912, AP000280, AC003959, AC004989, AC005057, AP000107, AP000039, AC0040223, AL031005, AC004908, AL027272, Z98946, AC002076, AL024507, AC005940, U95743, AL002426, AC005368, AL023578, AF111169, Z97183, AC007786, AP000306, AC005765, AC005793, AP000047, AF176915, AC004964, Z93096, AP000115, AC002375, AP000692, AL008706, AL054000, AL031276, Z83826, AC005599, AC005913, AC010220, AC004890, AC005037, AC007207, AL229043, AC004822, AC005747, AP001135, AC005197, AC005255, AC000066, AP000072, AC001068, AC004907, AC005519, Z82206, AC005730, AL010770, AL0135783, AC006241, AC002565, AP009965, AC011598, AP009952, AL001053, AL049845, AC005370, AC003662, AC005866, AF111170, AL080243, AC007738, AL117340, AL008718, U85195, AE000658, AC004760, AC002994, AC009336, U95740, AC006285, AC007228, AL021978, AC006367, AL050326, Z75744, AC002519, AC004969, AL035420, AL239321, AC005152, AC005385, AC004099, AC006006, AC005482, AC009275, AF07018, AC006064, AL034452, AL031662, AB020876, AC005969, AC016025, AC007225, AC006004, |
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|          |      |        |          |           | AC018633, AC005951, AC002553, AF000553, AL110502, and AL023879.   |
| HDLAN36  | 1640 | 923478 | 1 - 85   | 15 - 99   |   |
| HDLAO27  | 1641 | 787084 | 1 - 422  | 15 - 436  |   |
| HDLAQ50  | 1642 | 723854 | 1 - 307  | 15 - 321  | AI581067.   |
| HDLAR24  | 1643 | 943930 | 1 - 305  | 15 - 319  |   |
| HDLAR29  | 1644 | 922276 | 1 - 393  | 15 - 407  | AI220255.   |
| HDLBB03  | 1645 | 923286 | 1 - 327  | 15 - 341  | AF162761.   |
| HDMAQ15  | 1646 | 941282 | 1 - 1134 | 15 - 1148 | AI141684, AA242853, AI281834, N50984, AW014432, AA826047, AA977801, AA984041, T64272, AA994205, AA252172, AI361098, T64144, AI280735, AW084330, AA931748, AW071613, R09320, AA448980, AI990634, R09211, AW588104, AI147841, AI198101, AW238793, AI627898, AW074546, AW072130, AI276023, AI394689, AI457707, AI953242, AI539262, AA947158, AI150147, D44958, AA034918, and AC004126.   |
| HDMBH76  | 1647 | 883212 | 1 - 1214 | 15 - 1228 | AA584604, R17976, and AA297873.   |
| HDMBK12  | 1648 | 968954 | 1 - 424  | 15 - 438  |   |
| HDPAAG89 | 1649 | 693445 | 1 - 501  | 15 - 515  | H51802, H67354, T67670, AA700794, AB029488, and AC002536.   |
| HDPAAB03 | 1650 | 924124 | 1 - 356  | 15 - 370  | AI078600.   |
| HDPAAD22 | 1651 | 674560 | 1 - 470  | 15 - 484  | AI492865, AA830291, and Z59212.   |
| HDPAE86  | 1652 | 709072 | 1 - 505  | 15 - 519  | H49713, and T87022.   |
| HDPAF70  | 1653 | 881626 | 1 - 452  | 15 - 466  |   |
| HDPAAG03 | 1654 | 771636 | 1 - 216  | 15 - 230  |   |
| HDPAAG32 | 1655 | 947832 | 1 - 627  | 15 - 641  | AC005946, and AC006272.   |
| HDPAH10  | 1656 | 969041 | 1 - 516  | 15 - 530  | T97458, AA704961, AA704993, T97730, R09226, AI097092, AI264637, AW440517, T97914, AA203274, AA045417, AA127626, AA308065, T96809, F22528, AA304050, AA082078, AI087224, W39584, AI042559, N32838, AI289816, AI333981, AA513003, AA121528, AA716353, AA302332, AI805206, AA677140, W44935, AI208270, AA112905, AI024761, AI087291, AA448463, AA101212, AI685445, AI094396, AA932240, AA331180, AA062780, N42284, AA045311, and AA073273. |
| HDPAQ24  | 1657 | 677179 | 1 - 425  | 15 - 439  | AF221944, AF110330, and Z61018.   |
| HDPAAS40 | 1658 | 860041 | 1 - 567  | 15 - 581  | AC003004.   |
| HDPAV74  | 1659 | 916457 | 1 - 396  | 15 - 410  |   |
| HDPAZ46  | 1660 | 719024 | 1 - 434  | 15 - 448  |   |
| HDPAZ73  | 1661 | 756742 | 1 - 496  | 15 - 510  | AI734217, AI830204, AI764987, W20302, AA328526, AI344107, AI686557, K54083, AA334776, AA151813, AI921148, AA815201, AA386170, AA122312, AI361541, AI281342, AA071290, AI284343, R60683, AA399256, T36239, N23786, T65297, AA779556, AA425224, AA330782, AW004629, AA888883, F02683, F10790, F03793, R41712, H29594, N46213, R39944, R40964, R48971, R44252, R44573, R50366, AF182814, and AI243721.                                     |

|         |      |        |         |          |   |
|---------|------|--------|---------|----------|---|
| HDPBC24 | 1662 | 760623 | 1 - 340 | 15 - 334 | AI401449, AA075859, D26362, AC000391, and AC002323.   |
| HDPBD79 | 1663 | 973367 | 1 - 159 | 15 - 173 | AI003449, AI970509, H23104, N45556, AL040461, AI216346, AA927218, AA912892, AI078614, AL137712, and AL109748.   |
| HDPBJ94 | 1664 | 943460 | 1 - 810 | 15 - 824 | AA296462, AA223692, AB023188, Z54728, and Z54729  |
| HDPBM64 | 1665 | 773091 | 1 - 397 | 15 - 411 | AI721185, AI066446, AA700943, AW023111, AW076532, AI249997, AI471476, AI362442, AI357628, AI955029, AI305547, AA663074, AI755202, AW089016, AA502707, AI309042, AI039041, AA721722, AI061313, AW028950, AL042373, AA837035, AA602906, AA569402, AI821044, AC005015, AC009501, AC005228, AC004878, AL096701, AC007193, AI049540, AC004813, AC002997, AL021937, AC005914, AC004897, AC005562, AC002381, AL117258, AC005088, AC005747, AC004832, AC006285, AC002544, U8H017, AC007308, AC005599, AI034548, AF200465, AC007199, Z86990, AC007546, AC005921, AL021393, AC008033, AL133246, AC006312, AC002316, M63796, AC007226, AF111169, AC006597, AF196779, AC004883, AC004125, AL049843, AL121652, Z93023, AL035249, AL078581, AI010770, AC004912, AC007227, AC004999, AL049779, AF196969, AL096774, AC005082, AC005031, AL035587, AP000304, AL035413, AC004534, AC004806, AL096774, AF196971, AC002115, AC004796, AC005873, AC007052, AC006948, AF124523, AL121653, AP001054, AC004638, AC006241, AC005102, AC004587, AL022097, AC005786, AP000509, AC005058, AC006430, AC007540, U07000, AF107258, AL133448, AC004223, AC010205, AC006211, AC003109, AL049697, AL121595, AC005412, AL049757, AL117328, AC005844, AC008101, AC005722, U95742, U63721, Z99496, Z83840, AC003963, AC000134, AC000392, U62292, AC005696, AF053356, AC003684, AP000047, AL022318, AL049712, AC005409, AC007011, AL049766, AB023051, AL080243, AC005280, AB023049, AC004953, AF001548, AC004881, AC005500, AC004216, AC004520, AL024507, AC002400, AL022311, AL109801, AC005776, AL133353, AP001053, AL022329, AC006509, AC005209, AC004973, AC004991, AC007731, AC004989, AC007994, AC004263, AC016830, AF121781, AC004383, AC008055, AC005695, U96629, AP000513, AC002091, AC000092, AC004910, AF111168, AL049795, AC005920, AC007298, AC002073, AL049650, AL031659, Z98884, AP000115, AC000353, AC003663, AC005089, AL031282, AC004671, AC004025, AL049569, AC006530, AC007041, AC007934, AC007637, AL049869, AF109907, AC005519, and AC004551. |
| HDPBW10 | 1668 | 964553 | 1 - 460 | 15 - 474 | AL045848, AA382534, AI832000, AI292085, AI264046, AI251024, AI446205, AW270768, AW008074, AI494975, AI291037, AW302709, AW271774, AW236235, AA219651, AI078409, AI803915, U91326, AC002544, Z93942, Z83826, AP000105, AP000037, AC000959, Z93931, AL031286, AI229042, AL13243, AP000092, AC003962, Z83843, AC004386, AI031728, AC005239, AL021154, AP000150, AC006123, AF107885, AF000009, AC004202, AC002310, AC007565, AL022316, AC007684, AC007676, AF047825, AL026997, AL049776,  |

|          |      |        |         |  |
|----------|------|--------|---------|--|
|          |      |        |         | AC006241, AL132712, AC003025, AF139813, AC004770, AC004228, D86991, AC005304, AC002045, AF010238, AL049712, AC002418, AC010170, AC005324, AF000518, AC007528, AC004477, AP000008, AC004024, AC006515, AC000052, AC007129, AL078581, AC002553, AC008372, AP000074, AC006487, Z82900, AL022314, AB023054, AC0084019, AL121748, AP000694, AC005620, AC002996, AC003035, AC004859, AF020515, Z83732, AC004011, AL031846, AC005207, AB001523, Z98752, AC004148, and AP000065. |
| HDPBW26  | 1669 | 670345 | 1 - 240 | 15 - 254   |
| HDPBX52  | 1670 | 779848 | 1 - 533 | 15 - 547   |
| HDPBY23  | 1671 | 858345 | 1 - 505 | 15 - 519   |
| HDPCC48  | 1672 | 709005 | 1 - 423 | 15 - 437   |
| HDPCH65  | 1673 | 950716 | 1 - 493 | 15 - 507   |
| HDPCK27  | 1674 | 683383 | 1 - 450 | 15 - 464   |
| HDPCK66  | 1675 | 766231 | 1 - 432 | 15 - 446   |
| HDCM35   | 1676 | 973352 | 1 - 455 | 15 - 469   |
| HDCN22   | 1677 | 927838 | 1 - 610 | 15 - 624   |
| HDCN94   | 1678 | 794275 | 1 - 753 | 15 - 767   |
| HDCRC34  | 1679 | 852871 | 1 - 327 | 15 - 341   |
| HDCS43   | 1680 | 714479 | 1 - 299 | 15 - 313   |
| HDCVC60  | 1681 | 720278 | 1 - 846 | 15 - 860   |
| HDCW90   | 1682 | 612234 | 1 - 427 | 15 - 441   |
| HDPY03   | 1683 | 924057 | 1 - 455 | 15 - 469   |
| HDPY43   | 1684 | 958157 | 1 - 468 | 15 - 482   |
| HDPY93   | 1685 | 571375 | 1 - 431 | 15 - 445   |
| HDPD78   | 1686 | 773556 | 1 - 362 | 15 - 376   |
| HDPD124  | 1687 | 677166 | 1 - 376 | 15 - 390   |
| HDPD90   | 1688 | 735027 | 1 - 442 | 15 - 456   |
| HDPDL2   | 1689 | 691647 | 1 - 647 | 15 - 661   |
| HDPDL79  | 1690 | 774943 | 1 - 570 | 15 - 584   |
| HDPDN08  | 1691 | 959332 | 1 - 927 | 15 - 941   |
| HDPDO46  | 1692 | 719010 | 1 - 449 | 15 - 463   |
| HDPPEC15 | 1693 | 745045 | 1 - 195 | 15 - 209   |
| HDPF07   | 1694 | 974494 | 1 - 798 | 15 - 812   |
| HDPF121  | 1695 | 852824 | 1 - 376 | 15 - 390   |
| HDPFQ93  | 1696 | 772456 | 1 - 373 | 15 - 387   |
|          |      |        |         | AL006241, AL132712, AC003025, AF139813, AC004770, AC004228, D86991, AC005304, AC002045, AF010238, AL049712, AC002418, AC010170, AC005324, AF000518, AC007528, AC004477, AP000008, AC004024, AC006515, AC000052, AC007129, AL078581, AC002553, AC008372, AP000074, AC006487, Z82900, AL022314, AB023054, AC0084019, AL121748, AP000694, AC005620, AC002996, AC003035, AC004859, AF020515, Z83732, AC004011, AL031846, AC005207, AB001523, Z98752, AC004148, and AP000065. |
|          |      |        |         | AC007172, and X84692.  |
|          |      |        |         | AA004919, C16939, AW301353, and T06985.  |
|          |      |        |         | AA284452, and AL135744.  |
|          |      |        |         | AL096805.  |
|          |      |        |         | H81040.  |
|          |      |        |         | AL122086, AF120323, AB022915, AF120324, and AF121102.  |
|          |      |        |         | AL1762468, AA039789, AA039790, AL040678, AW044237, R69130, W80467, R69248, N69997, R66283, R79969, R80067, R66282, R08901, and W80576.   |
|          |      |        |         | T86522, R05896, and R01279.  |
|          |      |        |         | AF118808.  |
|          |      |        |         | N44631.  |
|          |      |        |         | AB014599.  |
|          |      |        |         | AF150205, R94203, and AF161539.  |
|          |      |        |         | AL940403, AC005363, and AC005606.  |
|          |      |        |         | AA573618, and U81831.  |
|          |      |        |         | AW177005.  |
|          |      |        |         | AA216672, AA078092, AA829049, and AC007444.  |
|          |      |        |         | AA808002, AA467766, AC007276, AL031650, AL096861, Z84480, AC002525, AL031575, AP000569, and AL035073.  |
|          |      |        |         | AB033030, and AF151363.  |
|          |      |        |         | AL034555.  |
|          |      |        |         | AL049766.  |

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| HDPEV55  | 1697 | 575202 | 1 - 544 | 15 - 558 | AA833892, R84376, and AA382114  |
| HDPEW80  | 1698 | 734937 | 1 - 495 | 15 - 509 |   |
| HDPEY90  | 1699 | 788870 | 1 - 353 | 15 - 367 | AW404640, AF150417, AL023653, and AL049683.   |
| HDPEZ58  | 1700 | 735975 | 1 - 515 | 15 - 529 | AL134996, AB018413, and AB011143.   |
| HDPCB73  | 1701 | 574603 | 1 - 355 | 15 - 369 |   |
| HDPCG28  | 1702 | 625678 | 1 - 446 | 15 - 460 |   |
| HDPCGH27 | 1703 | 937144 | 1 - 315 | 15 - 329 | AA362688, AA362690, AA362689, T29199, AL044652, 107209, 107249, AR068510, AR067734, AR067731, AR068509, A93954, 109267, 109270, 191969, 109268, 109269, A49701, 109252, 109251, AR067732, A29109, A32111, 166495, AR068550, A23373, AR068551, 166494, E01324, 108638, A94048, A94061, AR055224, A94046, A94054, A94045, 158322, 158323, 166498, 166497, 166496, 166487, A27169, A27170, A39929, A83151, AR038307, AR038321, AR051528, AR051547, AR051537, AR051524, and A42964.   |
| HDPCG14  | 1704 | 415961 | 1 - 432 | 15 - 446 | AL018392, AA576672, H84975, A1929768, AW157282, AA599045, H77773, AA847622, AA828053, AA826320, AA598731, AC003982, Z84466, AC005102, AC003665, AC002350, AF126483, AC004752, AL022238, Z98257, AC005105, AL135783, Z98742, Z86064, AP000289, AP000042, AP000110, AC0007537, AC0005381, AC004685, AC005015, AB020868, AC006581, AL080243, AC004000, AC004797, Z82976, AC005971, AC006026, AC005280, AC005736, U47924, AC001234, AC004526, U93305, AL031905, Z83822, AL049874, AL023575, AF060568, AL022717, Z84487, AC006241, AC006011, AC007671, Z99916, AL031673, AP000350, AC005886, AF001549, AL049631, AC005031, U80017, AC007193, AC002477, AC005932, AC002470, AF198095, and AF091512. |
| HDPCG21  | 1705 | 760926 | 1 - 340 | 15 - 354 |   |
| HDPCG195 | 1706 | 910792 | 1 - 443 | 15 - 457 |   |
| HDPCG165 | 1707 | 666830 | 1 - 515 | 15 - 529 |   |
| HDPCG85  | 1708 | 783563 | 1 - 451 | 15 - 465 |   |
| HDPCG30  | 1709 | 780359 | 1 - 408 | 15 - 422 |   |
| HDPCG52  | 1710 | 852800 | 1 - 422 | 15 - 436 | AA287508, W15561, and N80792.   |
| HDPCG54  | 1711 | 464312 | 1 - 669 | 15 - 683 | AL031123.   |
| HDPCG75  | 1712 | 872249 | 1 - 409 | 15 - 423 | AP000172, AP000057, AP000125, and AP000330.   |
| HDPCG143 | 1713 | 495783 | 1 - 547 | 15 - 561 | AF00109, AA468022, W60328, AC002470, AC005529, AC005666, AF055066, AC009516, AF053356, AL096791, AC007308, AC005940, U47924, AC005071, AC004638, AL022238, AC005690, AC005057, AL008715, AC005527, AC004263, AC004814, AC007919, AC005387, AC005829, AC000353, AF045555, U95740, AC005695, AF207550, AL022224, AC004156, AL031587, AC004921, AC009044, AL031295, AC005914, AF165926, AC007066, AC002378, AL136295, AC012627, and AC005694.  |
| HDPCG150 | 1714 | 720595 | 1 - 330 | 15 - 344 |   |

|         |      |        |         |          |  |
|---------|------|--------|---------|----------|--|
| HDPCX44 | 1715 | 683277 | 1 - 454 | 15 - 468 |  |
| HDPHB75 | 1716 | 915912 | 1 - 127 | 15 - 141 |  |
| HDPHF59 | 1717 | 677172 | 1 - 211 | 15 - 225 |  |
| HDPHG23 | 1718 | 416041 | 1 - 312 | 15 - 326 |  |
| HDPHG42 | 1719 | 732133 | 1 - 602 | 15 - 616 |  |
| HDPHG89 | 1720 | 733198 | 1 - 588 | 15 - 602 |  |
| HDPHH51 | 1721 | 921093 | 1 - 471 | 15 - 485 | AW408550, AW408705, AW407027, C18204, AW401857, AL031733, and AL137762.<br>AC005005.<br>AA447601, A1769676, A1052170, A183501, AA416632, T99484, AW237237, AA652361, AA652166, A1202729, AA115105, AA356475, AA828854, and AC005156.   |
| HDPHI02 | 1722 | 919825 | 1 - 448 | 15 - 462 |  |
| HDPHI71 | 1723 | 760325 | 1 - 391 | 15 - 405 |  |
| HDPHJ36 | 1724 | 706624 | 1 - 301 | 15 - 315 |  |
| HDPHK96 | 1725 | 921957 | 1 - 815 | 15 - 829 | AA654874, A1380617, AW780933, AW243945, A1355080, A1148557, AA564582, A1718462, AA445908, H73550, AA678616, A1683116, H67649, H48768, AA405549, AA297789, AA086257, AA936718, AA078754, AA599532, AL041682, A1924207, AL042230, A1912401, A1816058, A1732911, AA3200105, W041668, AL041681, F35551, AW051819, A1858889, A1055784, A1509401, AA584207, AA878407, AA904211, A1270647, A1061168, AA128969, H97379, AA669054, F31867, AW070330, AA558404, AA493947, AA302982, A1955360, AA471013, A532040, AA345594, AA715955, A1053688, A1671077, AA425924, A1678992, A1792521, F32040, AW078821, AA572753, R99613, AW390284, A1347665, W81372, H68191, F25666, AA644223, AA460910, A1697425, AA581498, AA386433, F35674, A1472736, A1819262, N400927, H67064, AA019973, AA745552, AW440568, AA635413, AA013168, A1198718, AA460920, A1857422, AA678932, A1818545, A1753887, AA344768, AW081610, AA721523, AA461212, N86362, A1866580, N67313, A1701059, AA513884, A1134440, A1570237, A1620354, AA461223, A1889995, F35684, AA058312, AA420723, T17384, AA804334, A1133514, AA126814, AL040521, A1370841, AA831913, AA419389, A1114557, AW275432, AA640310, AA515351, R93919, A1118912, AA652830, A1889579, N58505, AA487300, AW079737, AA601237, AA102737, AA249239, AL044177, A1002709, AA626595, AL121287, A1813783, AA568314, AA355128, AW019964, AL045423, AA504951, AA804297, AW023111, AA583132, T17332, AA551056, AA609826, AC004637, AL031984, AL022330, Z94160, AL133500, AC004032, AC002563, AL031775, AC010582, AL033380, AC006948, AC006276, AC004125, AC008119, AL031432, AC006023, AL031279, A15900662, AC006120, AC004111, Z83846, AL035682, Z98742, AL078638, AC002070, A132444, AC004943, AL021939, AP000327, AC003108, AC006511, AC008149, AC007684, AC006241, AL021546, AC002303, AP000123, AP000055, D84401, A132826, AL035588, AL031228, AL049911, AL022576, AL121578, Z70289, AR036572, U91328, U93305, AL049832, AC004601, Z97053, U52111, AC005220, AC002375, AL022721, AC004593, AC003683, Z95115, Z98048, AF196779, AC004820, AC007221, Z92542, AC005969, AC004465, AL050317, AC005495, X51956, AL117694, AC006512, AP000075. |

|         |      |        |         |          |   |
|---------|------|--------|---------|----------|---|
|         |      |        |         |          | AC006390, AL022238, AC005215, AC007263, AL049749, Z84480, AC005684, AC002115, Z81008, AC002350, AC005355, AC006361, AL031728, AC006125, AC005487, AC007388, AL031311, Z94055, U47924, AP000496, AC005209, AL020998, AL109738, AC003684, AP000114, AP000046, AC010200, AC003965, AC005379, AL079333, AF1196969, AC005225, AC005219, AC005726, Z85996, AC005187, AF015416, AC008989, AC004049, AL035703, AC007151, AC005288, AC005625, AC005568, AC003013, AL049576, AL049869, AC004762, AL031427, AC007663, AC010206, AC005553, AC007225, AF128893, AL109750, AP000049, AP000311, AC007387, AC006057, AL022332, Z69652, AL012008, AC005061, AC007934, AC003665, AL132796, L31948, D87022, AC004663, AC006600, AL031055, AC004854, AL121588, AL022726, Z69922, AC005514, U63312, AL022395, AC002112, AL132800, AL031121, AL009172, AL117258, AC007279, Z82176, AC004963, AC006205, AC006039, AF047825, Z75407, AL049692, AL049570, AC002073, Z83851, AC007201, AC007358, U44106, AC007617, AC002045, AC005546, AP000504, AC004997, AC002481, AL035462, AC007649, AC004651, AC002314, AC015853, AL031587, Z93242, AC005324, AC004832, AL022069, AC010205, AC007540, X15943, X68793, AF199339, AL023879, AL023883, AC006636, AP000701, AL031258, AP000115, AC005081, AC000003, AL031289, AC005585, AC005939, AL022313, AC004923, AC002455, AC005094, AL135746, AL009181, U4294, AC005391, AF030453, Z84487, AP000304, AC005049, AC005690, AC005728, AC005015, AL022326, AC003010, U73169, AL031665, U93036, AC002385, AL011931, AC005284, AC004019, AC005082, AC006480, AC007023, L43411, AL035416, Z82244, AF111169, Z93023, AF024534, AC004257, AC004760, AC004262, AL239318, Z84474, AC005839, AL031664, AC004821, and Z70288. |
| HDPIA15 | 1726 | 772020 | 1 - 588 | 15 - 602 | AL035582, and AL040766.   |
| HDPIA37 | 1727 | 954869 | 1 - 680 | 15 - 694 | AL1470828, AA888031, AL120421, AA229902, AA281976, AA204701, AA424801, AA410294, AA435831, AA397595, and AB002334.  |
| HDPID10 | 1728 | 928163 | 1 - 547 | 15 - 561 | H78846, R97122, AA331528, T85509, AW362954, AL193875, AW362978, AL193991, AA699647, AW362953, AL033788, AW363023, and AC005412.   |
| HDPID37 | 1729 | 868169 | 1 - 554 | 15 - 568 |   |
| HDPIE42 | 1730 | 713081 | 1 - 389 | 15 - 403 | AL120078, N28089, AA206257, AW378916, AL117258, and Y18483.   |
| HDPIF86 | 1731 | 591540 | 1 - 488 | 15 - 502 | AL022316.   |
| HDPIH48 | 1732 | 677664 | 1 - 511 | 15 - 525 |   |
| HDPII26 | 1733 | 681519 | 1 - 515 | 15 - 529 | T84946, AL047527, AL047528, and AC002394.   |
| HDPIQ55 | 1734 | 961163 | 1 - 458 | 15 - 472 | T81944, T79115, and H63342.   |
| HDPIQ65 | 1735 | 747791 | 1 - 426 | 15 - 440 | AL732675, AA469134, and AA420876.   |
| HDPIU53 | 1736 | 926498 | 1 - 371 | 15 - 385 |   |
| HDPIU61 | 1737 | 741724 | 1 - 408 | 15 - 422 | AC004126.   |

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| HDPJA04  | 1738 | 628745  | 1 - 318  | 15 - 332  | AW245495, AL046917, AW040628, H91107, AR012155, AB018357, and AB026628.  |
| HDPJA26  | 1739 | 767110  | 1 - 455  | 15 - 469  | AW161153, AW161055, AF150432, AL136504, AF189723, AF181121, AF181120, and M93017.  |
| HDPJB08  | 1740 | 9211453 | 1 - 403  | 15 - 417  |  |
| HDPJB05  | 1741 | 911170  | 1 - 2838 | 15 - 2872 | AA905416.  |
| HDPJK06  | 1742 | 852781  | 1 - 438  | 15 - 452  | AI928173, and Z95115.  |
| HDPJK73  | 1743 | 765446  | 1 - 403  | 15 - 417  |  |
| HDPJN68  | 1744 | 752907  | 1 - 314  | 15 - 328  | T34282, T18874, AA983199, AI491817, AA579179, AA630672, AA010299, AI818231, F05641, AA425118, R12156, H15474, AI207363, AA513893, AL041373, AL041526, AL041527, F13380, AA410788, AA584170, AW022608, AI733856, AI056177, AA506744, AC005411, AC002431, AC00516, AC006552, AC006390, AL031432, AC004983, AL031283, AC005046, AC005953, AP000348, AB000931, AL035420, AL049830, AC006501, AC005750, AL031279, AB009667, Z83845, AL022237, AC004841, AC006312, AC003800, AC004812, AC002550, AC006313, Z69706, AC004534, AL078638, AI117694, AL022316, AC005071, AC002549, AC002070, AC006012, AC005305, AC012384, Z83856, AC003029, AL031466, AC007842, AF088219, AC012627, AC004675, Z84469, AC005759, AC006117, AC006480, AC002996, Z84483, AL031680, AC005837, AL133396, AL122020, AC005412, AC006120, AC005703, AC008975, AC004983, AC003080, AC005070, AL137191, AB023049, AL031591, AC006371, AL023913, AC002525, AF114156, AC005520, AP000281, AC004552, and AC007435. |
| HDPJO40  | 1745 | 711003  | 1 - 359  | 15 - 373  | AA578690, and T05118.  |
| HDPJP32  | 1746 | 918630  | 1 - 476  | 15 - 490  | AF104015.  |
| HDPJP79  | 1747 | 538038  | 1 - 465  | 15 - 479  | AI110883, and AC002476.  |
| HDPJR11  | 1748 | 965011  | 1 - 329  | 15 - 343  | AW204366, AA865368, AA442937, AA436769, and AW197446.  |
| HDPJU86  | 1749 | 785391  | 1 - 743  | 15 - 757  | AI703393, AI656220, AI457528, AI214558, W15512, AA888880, W39617, AA995374, N56658, AI202894, N47548, AI916559, H06953, R54815, R45929, R45928, T27096, AI203071, AA782845, Z41377, F04514, N30325, and N47547.  |
| HDPKD52  | 1750 | 959653  | 1 - 1159 | 15 - 1173 | T20100, and AC003070.  |
| HDPKD82  | 1751 | 778970  | 1 - 374  | 15 - 388  |  |
| HDPKQ40  | 1752 | 710991  | 1 - 355  | 15 - 369  |  |
| HDPKZ25  | 1753 | 677921  | 1 - 551  | 15 - 565  | AL031608.  |
| HDPKLB25 | 1754 | 965139  | 1 - 430  | 15 - 444  | H47933, N99775, AW391235, and R58738.  |
| HDPPLC45 | 1755 | 909091  | 1 - 816  | 15 - 830  | AI445866, AI816830, AA639828, R41845, AA258158, Z41214, H06057, F02752, T11904, and AL050333.  |
| HDPPLC60 | 1756 | 740144  | 1 - 382  | 15 - 396  |  |
| HDPPLD11 | 1757 | 966610  | 1 - 430  | 15 - 444  | AL120898.  |
| HDPPLD29 | 1758 | 690409  | 1 - 431  | 15 - 445  |  |
| HDPPLD57 | 1759 | 734528  | 1 - 412  | 15 - 426  |  |

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| HDPLD89 | 1760 | 786704 | 1 - 421 | 15 - 435 | R58132  |
| HDPLE38 | 1761 | 706639 | 1 - 345 | 15 - 359 | AA642326, AI267274, AI183572, and AB020719  |
| HDPLE63 | 1762 | 703477 | 1 - 433 | 15 - 447 |   |
| HDPLE75 | 1763 | 852685 | 1 - 447 | 15 - 461 |   |
| HDPLE88 | 1764 | 625293 | 1 - 323 | 15 - 337 |   |
| HDPLE96 | 1765 | 915966 | 1 - 437 | 15 - 451 |   |
| HDPLE86 | 1766 | 785316 | 1 - 619 | 15 - 633 | AA181731, AI343501, AI137607, AF109219, AB030280, AB030279, AB030316, and AB030312  |
| HDPLG10 | 1767 | 964213 | 1 - 402 | 15 - 416 | HA3885  |
| HDPLJ28 | 1768 | 840111 | 1 - 145 | 15 - 159 | AW085622, AW135279, AA779541, AI627872, N51608, AA382892, AI272986, AA416724, AI045453, AI440260, AW082088, AI249877, AI589428, AI037602, AI064666, AW029611, AW104141, AI921379, AW089351, AI289151, AI285432, AI873923, AI590043, AW075522, AI680066, AI347582, AI347701, AI537244, AI500584, AW074763, AI866503, AI673363, AI797908, AI698391, AI273901, AI537244, AI500584, AW074763, AI866503, AI673363, AI73278, AW051088, AW193231, AI432644, AW020397, AW074172, AI345415, AI889189, AI472566, AI633125, AI538564, AI815232, AI915291, AI491710, AW152182, AA928539, AI521799, AI884318, F27788, AW006032, AW130134, AI559524, AW087455, AW080746, AI345688, AI582912, AW163554, AI522052, AI697207, AA019328, AI859991, AI610690, AI249257, AI951868, AI963625, AI241744, AA862606, AI579901, AW105383, AI499890, AI866801, AI432030, AW104827, AI096481, AI580694, AW083374, AI500714, AI690748, AI670009, AI376872, AI679796, AA279795, AA580663, AI559555, AI890533, AI633062, AW148408, AI818683, AW104724, AI612852, AI922707, AI573032, AI962858, AW167083, AI583065, AI537024, AI648367, AI570909, AI435268, AI378080, AI538885, AI269862, AI538716, AW104062, AI636309, AI679672, AI580435, AW150225, AI631095, AI538850, AI362248, AI580451, AI312542, AW191844, AI684305, AW303089, AW131139, AA641818, AI559619, AI921464, AI267185, AW170673, H89138, AI523964, AW265004, AI961393, AA693331, AI624084, AI611743, AI912356, AW081322, AI621341, AI041105, AI525260, AI047344, AI687295, AI799314, AI366900, AI540674, AI473536, AA761557, AI866469, AI504723, AI048656, AI446124, AW151847, AI803778, AI016107, AI567883, W74529, AI690312, AI688858, AI677277, AW075669, AI702073, AI800473, AI371251, AW130681, AI263312, AA420722, AI536685, AI798456, AI678446, AW075305, AW192461, AI433157, AI952493, AI811840, AI002285, AI433994, AI866465, AI540458, AI799674, AI811644, AI564719, AW082607, AI254731, AI685005, AI464532, AI918809, AI887369, W48671, AI570807, AI52274, AW083778, AI345612, AI357599, AI862139, AW193038, AW081653, AI921176, AI683173, AI345416, AW129722, AI564500, AI679800, AI581033, AI291601, AI433600, AI909697, AI802542, AI048312, AI134712, AI619502, AI609580, AI627988, AI628015, AW021717, AI567846, AI682971, AI119828, AW744557, AI591387, AW128841, AI587606, AI241923, AA768478, AW169784, AI500061, AI933992, AW085786, AI280637, AW078895, |



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|          |      |        |          |           | <p>A1469505, AW021373, A1863241, A1590021, A1517261, A1677797, N98597, A1621682, A112210, A1582932, A1924713, A1567993, A1137429, U35846, A1122100, A1137533, A1177401, I489978, A1022147, X72889, A1050277, A1137529, A1137463, A1133557, A1061981, Z97214, A1137521, X53777, A65341, I48979, A1137529, A1137463, A1133557, A1061981, Z97214, L04849, AF102578, A1005690, A1131112, A1078630, A1050149, A1006112, Y18680, A1080159, A1137488, A1049452, A49139, X93495, A9314, A08910, I28326, A1006288, A1087943, A08909, I08319, A08913, A0338554, A18777, A77033, A77035, A08908, A1130342, A113113, A08912, A1061226, A1137478, I65873, I00734, A76335, A1412289, Z82022, E00617, E00778, A113010, AF032666, A1122110, AF090943, AF026124, Z82206, A08907, S78214, A1035067, A1133637, A111851, A1137547, S68736, A1133031, A1080110, I89947, A1080074, A1031346, I89931, A1080124, A1113694, Y10936, A1137523, A1050172, E12806, A1137459, I89944, I89934, I32738, A1137367, I49625, X79812, Y11254, AF079763, A1153205, A1050116, A08911, A1139986, A1110269, A18788, A068753, A21103, S76508, S36676, X80340, A1004686, A1813393, A1137574, A1006197, A1137275, A1137480, A1038969, L24896, A1000083, A1049283, A1122050, A1110221, A1117457, A1135668, A1122118, A1180525, A106657, X83508, U95114, A1137550, A08916, A1035407, S77771, A1113019, AF076633, A106697, A104032, U72620, A58524, A58523, L04859, A162270, A15345, A1026816, X82434, A1090934, A1067728, A1137560, D89079, A117416, X92070, M96857, A1080156, U80742, Y07905, A1038440, A1110218, A117115, A18079, E15569, A1137539, U54559, I19437, A117460, Z37987, S69510, A1110225, A1080148, A1137641, L04504, S71381, A1137276, S61953, A1078846, A1616169, AF082526, A1131773, U58996, A1031147, A1017790, A1047716, A1061795, Y14314, A1151685, A1096744, A1050108, U49434, A52563, A1029065, A1000145, U88966, E08516, A1137537, A1137627, A1020905, A1137556, A1031903, S78453, Y16645, A86558, A65340, A1118070, A83556, L30117, and M85164.</p> |
| HDPLK49  | 1769 | 835603 | 1 - 275  | 15 - 289  | A1239332, and A1000542.  |
| HDPLN06  | 1770 | 935010 | 1 - 422  | 15 - 436  |  |
| HDPLN76  | 1771 | 921700 | 1 - 391  | 15 - 405  | AA481295, AA213873, and AF001549.  |
| HDPL050  | 1772 | 724098 | 1 - 714  | 15 - 728  | AA355040.  |
| HDPLT29  | 1773 | 958196 | 1 - 204  | 15 - 218  |  |
| HDPLV74  | 1774 | 765334 | 1 - 467  | 15 - 481  | AL034375.  |
| HDPLMA48 | 1775 | 582015 | 1 - 829  | 15 - 843  | A1760818, and A1769951.  |
| HDPLMC49 | 1776 | 852767 | 1 - 1468 | 15 - 1482 |  |
| HDPLMF53 | 1777 | 733466 | 1 - 384  | 15 - 398  | R60108, A1914747, W89152, A1371165, A102980, H71659, U07562, A1002073, A1049576, Z95115, A1005832, A1009174, A1002551, A1110324, Z99291, A1002365, A1035659, A1002132, A1005015, A1004779, A1007151, A1004672, A1035405, A1007207, A1006430, A1004953, A1007011, A1111168, A1008726, A1002994, A1064860, A1006064, A1006430.   |

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| HDPMH83  | 1778 | 661316 |         |          | AC004472, AL031276, M31051, and AC000394   |
| HDPMI93  | 1779 | 852763 | 1 - 567 | 15 - 581 | AB001535, AF001064, and AF001063   |
| HDPMO62  | 1780 | 912722 | 1 - 571 | 15 - 585 |  |
| HDPMIP25 | 1781 | 678068 | 1 - 570 | 15 - 584 |  |
| HDPMIC34 | 1782 | 956248 | 1 - 588 | 15 - 602 |  |
|          |      |        | 1 - 417 | 15 - 431 |  |
|          |      |        |         |          | AA678970, AA515440, A110760, AA680243, AA679936, AL633479, A1732120, AC005919, AC004382, AC008072, AF196969, L44140, AC005722, AC006285, AC005881, AC002470, AF109907, AC006455, AC002077, U63721, U95739, AC005244, AF000114, AF000046, U62293, AC004531, AC009516, AL022324, AC005037, AC007386, AC005057, AB0022785, AC004989, U62292, AC004854, AC005225, AC005740, AC004526, AC004253, AC005776, U78027, AL031283, AC006576, AC004876, AL021155, AL049776, AC005695, AL021407, AC020663, AL022312, Z98200, AL035422, AL139054, AP000065, AC002310, Z93023, AC004815, Z98051, AC005180, AL049760, AP000553, AL0022336, AC007387, AC005920, AC005280, AC005053, U52111, AF134726, AC005215, AC000159, AF165926, AL033527, AL049692, AL135744, AL031311, AC004477, AC005015, AC004448, AC006026, AC007637, AC002404, AC006088, AC007225, AC005565, AC006539, AC007919, AC005846, AF047825, AC004858, AC000134, AL031985, AL132987, AC005821, AC005839, AL008582, AC004067, AC004651, AC005899, AC007388, AC005562, AC007773, AC005486, AC006571, AC016025, AC004831, AC004383, AL133243, AL133245, AL035683, AF053356, AL031680, Z86061, AC004895, AL024507, AC009044, AP000555, AL035458, AC005837, AL022163, AC005071, Z93020, AL008635, AC005480, AC005552, AF152363, AC005484, AC002059, AL023553, AC005399, AC004223, AF205388, Z84487, Z98743, AC004821, AF207550, AC002115, U95742, AL031432, AC004813, AC007845, AC005682, AL096791, Z95329, AC005479, AC006251, AP000350, AL009181, AC006388, AC008372, AC002418, AL049871, AC007216, AC005500, AC006254, AL0049829, AL132777, AC002565, AP000302, AC003957, AC006115, AC005189, AP000493, Z94056, AC003495, AC006120, AL022721, AL023653, AC007536, AP000503, AL049780, Z83840, AC007055, AC005907, AC005859, AC000026, AC007535, AC012627, AC005609, AL031666, AC004882, AL049636, Z95115, AC004525, AC004601, AC002492, AF196970, AC007686, and AC005632 |
| HDPMIS42 | 1783 | 713759 | 1 - 460 | 15 - 474 | H84948, H88291, AWO14470, A1810506, R85497, C15173, AA704157, AA286825, D81736, and F093232  |
| HDPMV53  | 1784 | 697470 | 1 - 535 | 15 - 549 | F09050, AA243386, C14449, AB007944, AF109076, AP000310, AC002301, AP000116, and U77096   |
| HDPMW22  | 1785 | 665153 | 1 - 452 | 15 - 466 |  |
| HDPMZ01  | 1786 | 916447 | 1 - 635 | 15 - 649 | AA447328   |
| HDPMNA03 | 1787 | 924082 | 1 - 97  | 15 - 111 | AA418623, AA418556, AA253164, H11871, and F05796   |
| HDPMNC96 | 1788 | 934520 | 1 - 720 | 15 - 734 | AC005913   |
|          |      |        |         |          | AA256100 and AB023182  |

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| HDNDP35  | 1789 | 973108 | 1 - 453 | 15 - 467 |   |
| HDNPE60  | 1790 | 974827 | 1 - 977 | 15 - 991 | AL138082, AW246260, AW247807, AW246149, A1878829, AW403641, R07062, AA687496, AW403272, AA687440, AA852531, A1659057, A1079775, AW005562, AF107060, AB009346, AB038365, AB038366, and U58884  |
| HDNP003  | 1791 | 924081 | 1 - 512 | 15 - 526 | AA883801, A1298498, N85346, and AA249868  |
| HDNPJ14  | 1792 | 767447 | 1 - 308 | 15 - 322 |   |
| HDPOC44  | 1793 | 707241 | 1 - 660 | 15 - 674 | AA360824  |
| HDPOD96  | 1794 | 939770 | 1 - 264 | 15 - 278 |   |
| HDPOF25  | 1795 | 852745 | 1 - 484 | 15 - 498 | AC003109, Z97055, and AC005630  |
| HDPOI52  | 1796 | 927699 | 1 - 884 | 15 - 898 | A1493647  |
| HDPOJ93  | 1797 | 792103 | 1 - 378 | 15 - 392 |   |
| HDPOK47  | 1798 | 973097 | 1 - 388 | 15 - 402 |   |
| HDPOL60  | 1799 | 767953 | 1 - 170 | 15 - 184 | A1205285, A1264338, R48389, T57897, AA191491, R61591, A1365411, AA779717, AA227325, and AF056312  |
| HDPOL66  | 1800 | 681391 | 1 - 424 | 15 - 438 | AA909852, A1718702, AA830158, AA281962, AA283111, AA579393, AA814111, AA480552, AA477445, A1791799, AA807036, AA469312, AA653189, AW451366, AA814853, A1598013, Z84489, Z84814, Z84477, and AF060863  |
| HDPOX65  | 1801 | 674963 | 1 - 283 | 15 - 297 | AF001548  |
| HDPOY33  | 1802 | 702285 | 1 - 208 | 15 - 222 |   |
| HDPOZ51  | 1803 | 926977 | 1 - 417 | 15 - 431 | A1014353, AA592982, and R17976  |
| HDPPA66  | 1804 | 870840 | 1 - 518 | 15 - 532 | T99407, and T97870  |
| HDPPC83  | 1805 | 683656 | 1 - 403 | 15 - 417 |   |
| HDPPD59  | 1806 | 708334 | 1 - 223 | 15 - 237 |   |
| HDPPG35  | 1807 | 579315 | 1 - 538 | 15 - 552 | A1767219  |
| HDPPG86  | 1808 | 923846 | 1 - 328 | 15 - 342 |   |
| HDPPK33  | 1809 | 666510 | 1 - 557 | 15 - 571 | AA528168, AA417878, N75120, AA688401, A1689902, N59545, N59559, N78301, AA426418, AL037450, AW016155, and AA610394  |
| HDPPPL30 | 1810 | 692095 | 1 - 581 | 15 - 595 | A1453210, AA578690, A1950963, T05118, A1537407, AF036405, AC004408, AC007686, AC005666, AP000065, AC004985, AC005800, AP000347, AL049836, Z99716, AC005412, AF202321, A1229041, AL035458, AF107045, AC006006, AC000025, AL110502, AL1050341, AC004491, AC005527, AC004686, AL035587, AC009247, AL031668, Z97876, AC007390, AF196969, AC008394, Z82188, Z95114, AC005789, AL078639, AC005529, AF111167, AL031295, AC010205, AL096791, AC004382, AC002300, AL132987, AC005907, AC005409, AC007731, AC006455, and AC005500 |
| HDPPM09  | 1811 | 625281 | 1 - 516 | 15 - 530 | AF041248, AF041249, and AF058759  |
| HDPPN33  | 1812 | 958993 | 1 - 136 | 15 - 150 |   |

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| HDPPN59 | 1813 | 909867 | I - 711 | 15 - 725 | AA781406, AA3304143, and A1079221.  |
| HDPP088 | 1814 | 963382 | I - 629 | 15 - 643 | AA082133.   |
| HDPP224 | 1815 | 812091 | I - 543 | 15 - 557 | AB951092, AP000555, Z98304, A1024474, AL035464, and AC004655.   |
| HDPPQ39 | 1816 | 712993 | I - 463 | 15 - 477 | AL022238.   |
| HDPPU30 | 1817 | 671973 | I - 327 | 15 - 341 | A1741964, AA361063, and AR035946.   |
| HDPPU44 | 1818 | 951276 | I - 437 | 15 - 451 | NZ5176, AB013139, AC004612, AF069291, and AF049895.   |
| HDPPW36 | 1819 | 785239 | I - 392 | 15 - 406 |   |
| HDPPX43 | 1820 | 674058 | I - 291 | 15 - 305 |   |
| HDPPQ41 | 1821 | 973075 | I - 799 | 15 - 813 | AL134920, AW392670, AL119355, AW384394, U06341, AW363220, AL119443, AW372827, AL119341, AL119497, AL119319, AL119457, AL042542, AL119324, AL119335, AL119396, Z99396, U06347, AL119399, AL119484, AL119363, AL119391, U06350, U06351, U06351, U06349, U06346, AL119444, AL119483, AL037205, AL042433, AL042614, U06345, AL134524, AL119439, AL119522, AL134902, AL134527, AL042975, AL119496, AL042450, AL042965, AL119418, AL142131, AL042984, AL042544, AL042980, AL042970, AL043019, AL043029, AL043037, AL042978, AL079683, AL043011, AL043033, AL042551, AL043003, AL119464, AL119320, AL119488, AL042850, AL043039, AL043008, AL042973, AL042428, AC006238, AB026436, AR054110, AS1671, AR060234, AR066494, AR069079, and AR043113.   |
| HDPPQ21 | 1822 | 786516 | I - 347 | 15 - 361 | AA844106.   |
| HDPPQ83 | 1823 | 830539 | I - 465 | 15 - 479 |   |
| HDPPQ45 | 1824 | 928430 | I - 309 | 15 - 323 | A1708005, A1001764, H78032, N67343, AA302697, A1270524, AA086150, AW157492, AA338167, AA338659, AL634691, A1678785, AB793994, AA049710, A1591375, R65651, AA855056, A1932600, AA845700, AA095637, A1053911, AF034194, AF037630, AB858864, AA074342, AW302724, F17142, AA467702, AA722927, AA679538, A1921043, AL042927, A1355414, A1932932, AA746726, AA287339, AA719073, A1733856, AA961035, AA077401, A1054414, AA737321, H64265, AA747009, N55515, A1798493, AA083215, R88067, AA365815, H11824, AA828062, AA503587, A1817230, A1922930, AW089898, A1494417, A1732789, AA493110, AA569786, A5069227, A1307565, AA381138, AW081303, AA630533, T47324, H60989, H65109, AA608715, A1634187, AA568494, AA605201, F36184, A1457313, AA587991, C15060, AA837035, T53761, AA833896, AA833875, H83470, AW270784, T51005, A1206669, AW302017, T52857, A1348678, A1367473, A1902708, A1916218, AC007536, AC005771, AC005340, AC005953, A1049773, AC002072, AC006972, Z93848, AL008716, Z70280, AC010382, AC004898, AC005050, M87898, A1010770, AF092858, AF116241, U12180, AF001551, AC004882, AC007999, A1034375, AL021154, AL034373, AL0457313, AA587991, AC006120, AC009336, AC001228, AC006953, AL080242, AL078477, AC003086, AC005529, D63861, AC004799, AL024998, U07563, AC004584, AC009247, AP000356, AC004821, AC004098, M87926, AL023883, AC005933, AC006958, A1078584, AB023049, Z82214, Z97181, AC006011, AC007559, AP000512, AL137430, AC004796, Z46936, AL17234, Z84572. |

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| AC004400, AC004476, AL050311, AC005200, AC004149, AC006262, AL008729, AL035460, AC005399, AP000350, AC003013, AC007842, AL021395, AC004019, AL137578, AC003965, U82694, AC004783, AC004706, AC002377, AL010205, AC005829, AC005409, AC008080, AC006305, AC000067, AL035086, AP000017, AC002351, AP000555, Z69925, AP002081, U72788, AP000322, AC005625, AC005796, AC005885, AP000089, AP000142, AP000543, AP000121, AP000167, AC006597, AC002468, AC002426, AC008163, Z83876, AL035415, AL035088, AC006454, AC002456, AC005234, AL109628, AC006952, AF053356, AL050317, D87675, AC005578, AC007191, AL118507, AC005370, AC005841, AP000152, AP000010, AC005049, AL049537, AP000469, AC005921, AF165124, AC007298, 134294, Z97054, AC005800, AL049843, AC002312, AC007688, AL035681, AL109952, AL031296, U07561, AC002133, AC004517, AC005379, AC003963, AL031273, AC004834, U04055, AL035412, AC005193, AL031276, Z83822, AL031588, AL034424, AL133245, AL121653, AL049696, AC005138, AL079342, AL033397, AC004887, AC007917, AC006241, AC005037, AC006312, AC005695, AL022165, M87915, AC007193, U75931, Z81364, AC006071, AP000513, AL031315, AC005914, AC007666, AC005919, AC002299, AC007435, AC007207, AL139054, AC002465, AL110505, Z68282, AP000692, AC004510, AC004644, AC005624, AC004791, AC009363, AC002369, Z85987, AL109627, AL031846, AC007314, Z98755, AC005837, AC008123, AL133448, AC005089, AC007363, AC006211, U66061, AL050331, AL096775, AC006088, AP000159, AC003112, AP000558, U82670, AP000261, Z99715, AC005903, AF024533, AC006130, AC005365, AC002316, Z98048, AF031078, AP000035, AP000100, Z81369, AF124523, AL035588, AL034420, AF227510, AC005273, AC004825, Z99943, AL080317, AL079295, AC004057, AL021407, AC005088, AL121754, AC006538, AL022323, AC008124, AC005871, and AC004025. |      |        |          |           |   |
| HDPL15  | 1825 | 789876 | 1 - 415  | 15 - 429  |   |
| HDPL64  | 1826 | 746043 | 1 - 394  | 15 - 408  |   |
| HDPL72  | 1827 | 760934 | 1 - 382  | 15 - 396  | W73902.   |
| HDPLQ3  | 1828 | 923168 | 1 - 437  | 15 - 451  |   |
| HDPLQ40   | 1829 | 949723 | 1 - 1727 | 15 - 1741 |   |
| HDPLQ77   | 1830 | 739816 | 1 - 363  | 15 - 377  |   |
| HDPLQ31   | 1831 | 741278 | 1 - 422  | 15 - 436  | AC003695.   |
| HDPLQ30   | 1832 | 768771 | 1 - 464  | 15 - 478  |   |
| HDPLQV63  | 1833 | 744471 | 1 - 307  | 15 - 321  | H09185, F12161, T75262, and T65253.   |
| HDPLRE08  | 1834 | 958933 | 1 - 661  | 15 - 675  | H00911, H84847, and AP000404.   |
| HDPLRE10  | 1835 | 961306 | 1 - 400  | 15 - 414  | AC005105.   |
| HDPLRG09  | 1836 | 828572 | 1 - 366  | 15 - 380  | AL653128, AA608839, A1082182, AA294981, AW451945, AA361764, AL610135, AW402400, |

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| HDPRH02 | 1837 | 919404 | 1 - 777  | 15 - 791 | AA926743, AA759066, AA287428, AL039683, and AB033038.<br>AL1348070, AL1371167, AL1378134, AL1553832, AL1816769, AA804474, AL101522, AA887492, AL084865, AA741486, AL196192, AA913644, AL021892, AP042465, AW007026, AA279724, AL381670, AL292178, AA279692, AL291674, AW291184, AW298288, AW452501, AL224078, AL301454, AA913182, and AL1378100.   |
| HDPRH59 | 1838 | 739077 | 1 - 604  | 15 - 618 | AA213441, and AF017714.  |
| HDPRJ19 | 1839 | 773790 | 1 - 392  | 15 - 406 | R45733.  |
| HDPRJ58 | 1840 | 724652 | 15 - 384 | 15 - 384 | AC'005803.   |
| HDPRN15 | 1841 | 577985 | 1 - 439  | 15 - 453 |  |
| HDPRP29 | 1842 | 690399 | 1 - 606  | 15 - 620 | AL174237, and AA019204.  |
| HDPRP63 | 1843 | 771394 | 1 - 452  | 15 - 466 | AC'006213.   |
| HDPRS79 | 1844 | 774077 | 1 - 288  | 15 - 302 | AW236973, and AL1521731.   |
| HDPRY05 | 1845 | 958822 | 1 - 455  | 15 - 469 |  |
| HDPRY33 | 1846 | 893790 | 1 - 555  | 15 - 569 | AP984149, T83298, T90781, AL598260, R94426, T80416, and Z97352.  |
| HDPRY70 | 1847 | 677782 | 1 - 330  | 15 - 344 | AW027929, AL672172, AW027716, AL1313156, AL1831852, AL738441, AL1816795, AP909010, AL1824006, AL961202, AL506917, AL1394023, AW241527, AL693976, AL985370, AL1384116, AL1333382, AL768254, AL366852, AL337214, AL264540, and AC'004917.  |
| HDPS055 | 1848 | 731496 | 1 - 308  | 15 - 322 | AL1815715, and AB028996.   |
| HDPSG10 | 1849 | 961323 | 1 - 443  | 15 - 457 | AA310474, and AL1831536.   |
| HDPSJ84 | 1850 | 782867 | 1 - 409  | 15 - 423 | RI6664, T82134, and AL031133.  |
| HDPSM07 | 1851 | 620372 | 1 - 587  | 15 - 601 | N59251, AA504245, AL679277, AL922887, AL1161077, AL767882, AW337496, AW138439, and AL679851.   |
| HDPSO36 | 1852 | 959141 | 1 - 418  | 15 - 432 | AL521731, and AW236973.  |
| HDPS557 | 1853 | 734507 | 1 - 563  | 15 - 577 | AW264023, AL193596, AL276007, AL828424, AL342582, AL291713, AL140006, AL858631, AL500563, AL914656, H81012, AA8487341, AA828840, AW339694, AL570067, AL873661, AA593168, AW238423, AW085626, R79350, AW24516, AW059706, AA947352, AA364082, AW028376, AL281022, AA632355, H85358, AA640563, AL760575, AL446618, R00693, AA364147, AL904126, AA991640, AW022796, AA515727, AL282322, AA420531, AA657834, AL003620, AL572680, AA493814, AL268465, AL14863, AA3359194, F34164, AA310753, AW166996, AL500315, H57802, AA419014, AA502862, AL031427, AC'003029, AF111168, AC'006079, AC'004996, AL021546, AC'005520, AC'004237, AL021937, AL050318, AC'005914, AC'007314, AL021331, AC'008372, AL133245, AL121653, AC'002351, U07000, AL079304, AP000503, AC'002425, AC'005581, AF134726, AC'006160, AL031255, AL049872, Z97056, AC'004081, AC'005911, AL034420, AL034371, AL050338, AC'004126, AL035422, AC'002094, AF195658, AC'006285, AC'005585, AL121658, AL133448, AL022165, AC'007066, AC'004801, AC'005800, AC'004099, AL031121, AC'004893, AL000864, AF038458. |

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| AF053356, AC006449, AC004909, AL031133, AL008719, AL023694, AC005102, AL049540, AC005225, AC004814, AC004883, AF001549, AF000112, AC004770, AL109613, AL031591, AL049780, AC004228, AC006530, AL035387, AL050308, AC004834, Z96074, AC004821, AC005011, AC005255, AC006162, AC008041, Z93017, AC004890, AC005006, AF176815, AC004151, Z82184, AC005759, AL109758, AC002407, L44140, AC005046, AC005015, AC005257, AC005755, AC007277, AC004997, AF139813, AC004087, AP000356, AL031229, AL121603, AC005003, AC002996, AP000008, AC005049, AC005303, AL034423, AC005696, AC006538, AC004686, AC005273, AP000704, AL049743, AC002369, AL024498, Z98941, AL008710, Z99297, AC002558, AC008040, AC008171, AC000353, AL050325, AL171694, AL034379, Z97634, AL022326, AL035417, AL033521, AC002316, AC000876, AC003043, AC004648, AC002430, AC005519, AL031311, U73169, AC005043, AC006581, AL049759, AP001065, Z95116, AC007384, Z83820, AC005821, AP000244, AC007993, AL133246, AC005740, AC005399, AC005041, AC004812, AC016830, AL049776, U51280, AC007307, AL096774, AC005531, AC007308, AF039904, AL109627, AP100114, AC002991, and AL008734, AL043945, AF159295, and U64205.  |      |        |         |          |  |
| AA403069, AW410514, AL1751649, AA486011, and AA099117  |      |        |         |          |  |
| D86967.  |      |        |         |          |  |
| AW084431, AA379385, R70884, AW272389, AA984920, R70883, F33820, AA158549, AA158550, AA092704, AA126271, H81732, T52745, AW071109, AL0469468, AL027917, AL298079, AA229159, AL567391, AL041682, T98915, AA425924, AL047480, AA381775, AL564215, AA582746, F23268, AL279417, AL041681, AL078409, AA932787, AA948272, AA523695, W81372, AA808847, R99613, AL044489, AA197019, C75139, R09127, AL204309, AL047645, AL028890, AL921348, AW316599, AA015948, AW132065, AA558404, AA458534, AA977419, AA772704, AA515631, AL613465, AL242614, AW193523, AA572824, AA568307, AA746939, AA526413, F07564, AA070462, AA487300, R98409, AL933478, AA830615, AA744021, AL749306, AL345497, AA334091, AA837529, AW055286, AL630894, AA904211, F33126, AA743794, R87135, AA074252, AA811954, T08205, AA831638, N92697, AA371003, H62923, AA548221, R96427, R48980, AL859906, AW023515, H71659, AL289050, AA890060, AA303165, AL284092, AW151761, H73550, AF587349, AL565445, AL668566, AA304892, AA372293, AL800345, AA730488, R98835, W265126, W23432, AA604515, AA720582, AA782322, AL037777, A925688, AW118963, H48768, AL476400, AL249688, AA669747, AL275982, AL686563, A954664, H73306, AL360504, AA230155, AL692245, AL181702, AL096714, AA077637, AA515160, AA973971, AL1811319, AA572813, AW083706, W42587, AA831801, AL929298, R29092, AA652830, AA320105, AA309457, AL929825, AA606952, U64042, AL188049, T05276, AW151541, AW169190, N30650, AL733523, AA620498, AL459733, |      |        |         |          |  |
| HDPSU54  | 1854 | 670838 | 1 - 347 | 15 - 361 |  |
| HDPSV04  | 1855 | 614924 | 1 - 410 | 15 - 424 |  |
| HDPSV29  | 1856 | 690415 | 1 - 423 | 15 - 437 |  |
| HDPSV30  | 1857 | 691778 | 1 - 342 | 15 - 356 |  |
| HDPTC31  | 1858 | 878639 | 1 - 355 | 15 - 369 |  |
| HDPTJ25  | 1859 | 706448 | 1 - 365 | 15 - 379 |  |

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|---------|------|--------|----------|-----------|--|
|         |      |        |          |           | AW083728, AL1038304, AL654305, AA354095, AA909816, AW157180, AL11130, AL253376, AL566236, AL754567, AL569100, AW192599, AL754105, AA351808, AL755214, AL784258, AL624800, AA832016, AL671077, AA665475, AA586433, AL080307, AL671695, AL192189, AA598627, AA533923, AA493618, AL537108, AA612578, AL653776, AL096738, AL060695, AC000394, AC004079, AL031984, AF043945, AJ239318, AL049911, Z97183, AL0435551, AC007114, AC007387, AC006017, AL121838, AC002072, AC005666, AC004230, AC007263, AL109623, AC008150, AP000702, AP000701, AL035443, AC002477, AC005295, AL078600, AC005746, X54156, U94788, AC003681, AC004783, AC005320, AL034548, AC007773, AC005881, AL049553, AC004991, AC005602, AC004900, AL035413, AC016027, AC016830, AC02385, L12582, AP000317, AP000051, AP000119, AP000166, AL035703, AC000026, AC007192, AC005777, AL009183, AC000118, AF207550, Z84469, AC005972, AC007298, AC002059, AP000288, AP000109, AP000041, D87009, AC006040, AC005006, AL049557, U91321, AC005067, AL020993, AC003070, AL031000, AF111169, AF064857, M22970, X64467, AC005480, AC002301, AC003982, AC006251, AC002073, AC004982, AL096678, AC007036, AC002381, AL133162, AF072711, AC004796, AC004787, Z86090, AC004885, AC005203, AC004856, AL122020, AC010200, AC006111, AP000547, AC006430, AC004601, AC005364, Z68284, L48038, AL021453, AC002492, AL008707, AL021392, AC006236, AC007671, AC005237, L44140, AC0010170, AC002287, Z94802, AC003026, AL109839, AL049631, AC005378, AL121603, AC005844, AC006317, AL031311, AC006480, U91323, AC005899, AC007308, AC002470, AC004232, AC007205, AF031076, AC004819, AF031078, AF030876, AC005695, Z82195, AF118808, AL109963, AL031009, AP000549, AC005514, AC005182, AL034554, AC006137, AL031983, AC002347, AL021578, U52111, AL031117, AC005531, AC006120, AC005082, AC006946, AC009731, AL034420, AC009509, Z93244, AB020864, AL023553, AC004685, AL031589, AL022162, AC002456, AC004551, AC010205, AC005803, AC005409, AF139813, AL096791, AC007917, AF111163, Z82171, AC005391, AL008719, AC005593, AL022343, AL033524, AL035419, AC005393, AC006006, AC007993, AL049636, AC003108, AC002094, U96629, AL096701, AL049871, AL022721, AC007656, AL022067, AL132800, AC008125, AL031591, AC005015, AC004522, AC004770, AC004228, M29929, U73634, AP000699, AC006276, AC005581, AP000300, AC000015, AL034421, AP000045, AP000113, AC004055, AL049643, AC005045, AL023581, AP000556, AP000557, AC007014, AL121769, AC006948, U91324, AL110200, AC006025, AC004832, U08988, U73647, AC004262, AC004762, AC004938, AL031657, AL109984, AC006101, AC004616, AC007347, AF001550, AC007225, Y07848, AL078639, Y10129, Z33856, AP000305, U91629, AP000690, AP001063, AP000047, AC006130, AL008582, AC004935, AP000115, AC004263, AF124523, Z99128, AL031588, AC005371, AL022316, AP000553, and AC005696. |
| HDPTJ79 | 1860 | 669209 | I - 1017 | I5 - 1031 | AA255804, AW274671, AW450051, AA256697, AA810976, AA731140, AA831863, AA737424, and AA761219.  |



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|---------|------|--------|---------|----------|--|
| HDPT071 | 1861 | 760142 | 1 - 662 | 15 - 676 | AW13149, AL048534, AF783898, AA504896, AA668340, F17149, A1700109, AW271711, AA468022, A1309643, A1110595, AC008122, AB023048, AC002350, AC005837, AB001523, AF053356, AC005874, AF134471, AF111168, AL035450, AC007227, AC006677, AC005242, AC005197, AC002369, AL034423, AC005529, AC003553, Z82206, U66059, AP000356, AC005363, AC004643, AC004149, AC002558, Z81314, AL049748, AC005409, AC002312, AC007382, AC007955, AC020663, U91327, AL096791, AP000689, A125235, Z98257, AC004447, AC006011, AP000557, AC005747, Z84476, AC007934, AF031078, Z91928, AC00285, AC004598, AF030876, AC007787, AP000141, AC005952, AC006039, AL133448, AL109627, Z93017, AC006966, AP000088, U73479, AC005695, AL096710, AP000036, AC006480, AC005411, AC006029, AL049832, AC005399, AC007536, D87675, AP000688, AC005570, L78833, AL031255, AL031286, AC009516, AC000025, U73636, AC000081, AL080243, AC005696, AC005257, AC007387, AC002378, AC006544, AL049776, AL049845, AC005512, AC005913, AC007226, AC005081, AP000692, AC006512, AC007022, AL096775, AL031602, AF064861, AC007919, AC003982, AC007845, AP000355, X69907, AC005015, AL008712, AC002059, AC006137, AC007051, AC006071, AL022163, AC004634, AC007040, and Z98752. |
| HDPT07  | 1862 | 741632 | 1 - 355 | 15 - 369 | AL070725.  |
| HDPT095 | 1863 | 906940 | 1 - 489 | 15 - 503 | AW298312, AW298314, and AB033497.  |
| HDPTT20 | 1864 | 669029 | 1 - 316 | 15 - 330 | Z84488.  |
| HDPTU30 | 1865 | 691181 | 1 - 343 | 15 - 357 | AL049795.  |
| HDPTU66 | 1866 | 697690 | 1 - 374 | 15 - 386 |  |
| HDPTU95 | 1867 | 876582 | 1 - 312 | 15 - 328 |  |
| HDPTW90 | 1868 | 722699 | 1 - 565 | 15 - 579 |  |
| HDPTD28 | 1869 | 852687 | 1 - 252 | 15 - 266 | AI417133.  |
| HDPUF77 | 1870 | 769852 | 1 - 246 | 15 - 260 |  |
| HDPUF04 | 1871 | 861520 | 1 - 438 | 15 - 452 | H82937, AA418494, AA418396, AL064869, AW051301, T84203, F18098, AA846353, AA762726, T11545, H58588, T82034, AL609370, AA594971, U80017, AC002527, AC002302, AC004799, AC003010, AC004821, AC005011, AC005225, AL023755, AP000962, AC005071, Z80902, AP000502, AC002326, AF134776, AC005329, AC005031, AL133355, AC004922, AC004491, AC004839, AC004143, AC004976, AC004125, AC005564, AC002132, AC007151, AC002549, AL034419, AL009031, AC005763, AF024533, AC008015, AC005899, AL035685, AB026906, AC005162, AC006014, AC007546, AC006251, AC002312, AC002112, AC005015, AC007225, AL023807, AC003048, AC004878, Z97200, AC005488, and AC005764.  |
| HDPUG06 | 1872 | 968313 | 1 - 459 | 15 - 473 | AC002091, and AC003695.  |
| HDPUQ02 | 1873 | 973235 | 1 - 683 | 15 - 697 | AC006238.  |
| HDPU62  | 1874 | 604483 | 1 - 365 | 15 - 379 | AL500481, F06397, AW148768, AL681168, N36045, A1133235, AA491120, R18846, T90676,  |

|         |      |        |         |          |  |
|---------|------|--------|---------|----------|--|
| HDPV09  | 1875 | 774165 | 1 - 723 | 15 - 737 | AA054341, AL039390, AL046681, A1890907, AL046137, A1249936, AL044204, A1049726, AA598862, AL042551, A1672187, AL045166, A1431235, A1888022, A1515136, AL120789, A1932620, A18845875, A1866484, AL042009, A1366900, AL047188, AL135730, A1889247, A1623302, A18845875, A1538615, A1431307, A1431316, A1431238, A1924051, A1920975, A1866786, A1431315, A1682915, A1866465, A1815232, A1801325, A1866691, A1500523, A1538850, A1887775, A1582932, A1590043, A1872423, A1923989, A1284517, A1500706, A1491776, A1445237, A1926593, A1289791, A1511138, A1889189, A1521560, A1500662, A1519174, A1285417, A1284509, A1582912, A1712723, A1539800, A1499512, A1889168, A1538885, A1440263, A1927233, A1866573, A1633493, A1434256, A1866469, A1805769, A1434242, A1888661, A1500714, A1284513, A1872310, A1888118, A1285439, A1859991, A1436429, A1355779, A1889147, A1623736, A1581033, A1371228, A1491710, A1440252, A1872315, A1440238, A1432656, A1567971, A1866003, A1610557, A1242736, A1539260, A1828574, A1887499, A1539781, A1702065, A1539707, A1885949, A133074, Y17793, AL133076, AL133053, AL133049, and AL133078. |
| HDPV09  | 1875 | 774165 | 1 - 723 | 15 - 737 | AA256770   |
| HDPVE36 | 1876 | 706712 | 1 - 546 | 15 - 560 | AW068637, A1003761, A1039369, A1380538, and A1137555.  |
| HDPVGH1 | 1877 | 966556 | 1 - 910 | 15 - 924 | W26587.  |
| HDPVH13 | 1878 | 656711 | 1 - 581 | 15 - 595 | W26587.  |
| HDPVJ94 | 1879 | 927023 | 1 - 463 | 15 - 477 | Z81450, and AC004652.  |
| HDPVQ96 | 1880 | 796133 | 1 - 389 | 15 - 403 | AA777374.  |
| HDPVR71 | 1881 | 740340 | 1 - 850 | 15 - 864 | AA082562, and AC007899.  |
| HDPVU35 | 1882 | 852616 | 1 - 623 | 15 - 637 | AB002344.  |
| HDPVV46 | 1883 | 718160 | 1 - 399 | 15 - 413 | 15 - 365   |
| HDPVV95 | 1884 | 582503 | 1 - 351 | 15 - 365 | 15 - 599   |
| HDPVW13 | 1885 | 656715 | 1 - 585 | 15 - 599 | AC006207.  |
| HDPVY53 | 1886 | 727593 | 1 - 317 | 15 - 331 | AA948370, AC005390, and AB023180.  |
| HDPVY58 | 1887 | 710458 | 1 - 365 | 15 - 379 | AL038081.  |
| HDPWA55 | 1888 | 965474 | 1 - 408 | 15 - 422 | AC006966.  |
| HDPWD25 | 1889 | 677764 | 1 - 500 | 15 - 514 | AA172104, AA232124, A1986306, R58806, AA081848, and AA232093.  |
| HDPWE80 | 1890 | 909916 | 1 - 932 | 15 - 946 | R18560, R13864, Z41866, AA333327, AA016124, AF107834, AF119386, AF097723, AF009513, and AF107835.  |
| HDPWE88 | 1891 | 857980 | 1 - 427 | 15 - 441 | AA1714632, D453505, AA307780, and A1923248.  |
| HDPWH10 | 1892 | 967692 | 1 - 472 | 15 - 486 | AA714632, A1923248, and A1923248.  |
| HDPWN34 | 1893 | 703814 | 1 - 451 | 15 - 465 | AA120101, AW246324, AF034175, A1460387, A14601572, AA338094, AA348155, AA316673, AA337791, R59433, U466268/AW402296, AA955027, AA3393071, AF061738, AC006160, and  |
| HDPWY46 | 1894 | 915964 | 1 - 462 | 15 - 476 |  |

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|---------|------|--------|---------|---|----------|
|         |      |        |         | S65367  |          |
| HDPXE68 | 1895 | 852626 | 1 - 635 | AF004231.   | 15 - 649 |
| HDPXE52 | 1896 | 726450 | 1 - 440 | AI697586.   | 15 - 454 |
| HDPXL59 | 1897 | 615543 | 1 - 568 | AA115345, N51515, AW297689, AA115304, N51527, A1925591, and A1080209.   | 15 - 582 |
| HDPXL68 | 1898 | 707532 | 1 - 830 | AA789296, and A1420081.   | 15 - 844 |
| HDPXP04 | 1899 | 614895 | 1 - 745 | T62674.   | 15 - 759 |
| HDPXU29 | 1900 | 852638 | 1 - 519 | H72530, AL207465, W52505, A1311647, A1174017, N72717, AA007673, N68472, AA773302, AA174016, AA223762, A1371165, N71291, A1457389, A121782, A1008718, AC0058533, AC004531, AC002369, AC005759, A1049757, AP000533, X77737, Y12851, X77738, L35930, AL031672, AC009336, A109907, AP000553, AC007022, AF157814, AC004813, AC010205, AC005066, AL034552, AF001552, AC002395, AC005291, AC005789, AC000159, Z98941, L78833, AC003102, AC006121, AC004828, AC006236, AC000093, AC007243, AF053356, Z24938, AC002375, AC006121, AC004828, AC006236, AC000093, AC007243, AF053356, Z24938, AC002086, AL008712, AC005695, AL050321, AL049544, AL035420, AC000105, AC006543, AC005664, AL022336, AC005911, AF111168, AC004805, AC006547, AC007533, AB014084, AC004659, AC006544, Z95118, AC004032, AL132992, AC004752, U07000, AL117258, AL031680, Z98742, AC004966, AF006487, AP000501, and AC003983.  | 15 - 785 |
| HDPXW75 | 1901 | 951320 | 1 - 771 | N46466, A1337376, W86648, AA52544, A1279721, A1341807, A1651516, A1245138, A1262580, and W86523.  | 15 - 785 |
| HDPXX01 | 1902 | 915914 | 1 - 392 | AA831180, AA593812, A1608672, AA877902, AA845911, A136605, AA831016, A139428, A1920936, A1421209, A1138419, A1138420, W70159, AA034272, A1413351, W96568.   | 15 - 406 |
| HDPXZ92 | 1903 | 743429 | 1 - 673 | A1870975, A1129781, A1749544, AA029334, W96468, A1801387, A1424505, W87792, A1342176, A136136, A1310128, A1343371, AA029335, A1138779, A1217508, A1337280, A1832175, A1018551, A1915185, W0808907, A1009317, AA033560, AA339417, A1245250, AA523730, A1658874, A138805, W70198, A1340796, AA781337, T89101, AA032082, AA746107, A1659538, A1989852, W87672, A1698899, R46554, R46555, AA340560, A1490481, A1890907, A1623302, A1431307, A1561147, A1866786, A1431316, A141238, A1043278, A1815239, A1500659, A1134524, A193598, A1866465, A1815232, A1801325, A1866691, A1500523, A1804505, A1538850, A187775, A1582932, A1434223, A1872423, A1590043, A1284517, A1923989, A1500706, A1491776, A1445237, A1289791, A1926593, A1511138, R50170, A1521560, A1889189, A1500662, A15151974, A1285417, A172723, A1284509, A1539800, A1582912, A1889168, A1538885, A1440263, A1927233, A1058275, A1866573, A133493, A1434256, A1866469, A1805769, A1434242, A1888661, A1500714, A1284513, A1888188, A1285439, A1890472, A1436429, A1859991, A1623736, A1355779, A1889147, A1581033, A1371228, A1491710, A1440252, A1440238, A1924051, A1567971, A1610557, A1860003, | 15 - 347 |

|           |             |               |               |               |               |           |            |
|-----------|-------------|---------------|---------------|---------------|---------------|-----------|------------|
| AD242736, | AI539260,   | AI828574,     | AI887499,     | AI539781,     | AI539707,     | AI702065, | AI8585949, |
| AI285419, | AI559957,   | AW089557,     | AI521571,     | AI469775,     | AI866581,     | AW074057, | AI567953,  |
| AI815150, | AI446495,   | AI040491,     | AI889191,     | AI867068,     | AI952433,     | AI033930, | AI232548,  |
| AI58271,  | AI798359,   | AI872315,     | AI932620,     | AI698352,     | AI282249,     | AI371229, | AW151107,  |
| AI042551, | AI371237,   | AI249936,     | AW194509,     | AI432644,     | AI555008,     | AI045166, | AW151979,  |
| AI046681, | AI039287,   | AI963852,     | AI494201,     | AI866458,     | AI046137,     | AI537677, | AI371251,  |
| AI440620, | AI866510,   | AI784016,     | AI490535,     | AI866461,     | AI923046,     | AI866595, | AI521228,  |
| AI072187, | AI955221,   | AI682915,     | AW151132,     | AI432666,     | AI539771,     | AI689247, |            |
| AI289386, | AW151136,   | AI924024,     | AW132015,     | AI561170,     | AI690946,     | AI469764, | AI047611,  |
| AI048567, | AI433157,   | AI432650,     | AI048403,     | AI362391,     | AI521596,     | AI433978, | AI828584,  |
| AW151970, | AI801286,   | AI866484,     | AI687588,     | AI432653,     | AI474699,     | AI042787, | AI431323,  |
| AI042655, | AI431321,   | AI371243,     | AI431315,     | AI469754,     | AI499543,     | AI042537, | AW081103,  |
| AI042853, | AI435471,   | AI043166,     | AI432656,     | AI440236,     | AI289747,     | AI008718, | AI8023147, |
| AI130706, | AI85195,    | AE000658,     | AI133053,     | AI121201,     | AI133049,     | AFI26331, | Z69719,    |
| AF045555, | AI049538,   | AI133655,     | AI30290,      | AI133074,     | EI3998,       | AC005826, | AC007358,  |
| AI023280, | AI031282,   | AC005345,     | AI805958,     | AI133020,     | AI121603,     | AI031407, | AC004544,  |
| AI049776, | AC005993,   | AI031390,     | AI022232,     | AF000299,     | AF000113,     | AF000045, | AI049795,  |
| AC005482, | AC005483,   | U89387,       | AC006002,     | AC004656,     | AC005520,     | AI015970, | AC004900,  |
| Z94162,   | AC005074,   | AC002078,     | AC004027,     | AC002430,     | AC009029,     | AI007384, | AI121915,  |
| AF002985, | AR055519,   | and AI034821, |               |               |               |           |            |
| AW179153, | AW179151,   | AW179152,     | AW179089,     | AW179088,     | and AI122043, |           |            |
| AB011158, | and Z61808, |               |               |               |               |           |            |
| TS7457,   | T99432,     | W88845,       | R06479,       | and AA226858, |               |           |            |
| AW021320, | T97381,     | D87685,       | and AF091622, |               |               |           |            |
| AI119443, | AW192670,   | AI193363,     | AW372827,     | AI19319,      | U46346,       | AW163220, | AW384394,  |
| U46351,   | AI119497,   | U46349,       | AI119496,     | AI119457,     | AI119335,     | U46350,   | AI119484,  |
| AI119444, | U46347,     | AI134528,     | AI119324,     | U46341,       | Z99396,       | AI134518, | AI042970,  |
| AI119483, | AI119341,   | AI119439,     | U46345,       | AI134524,     | AI042965,     | AI119522, | AI042614,  |
| AI042995, | AI119399,   | AI037205,     | AI119396,     | AI134538,     | AI119418,     | AI193104, | AI043029,  |
| AI042450, | AI042975,   | AI042850,     | AI119320,     | AI042544,     | AI042542,     | AI043019, | AI042984,  |
| AI119464, | AI042551,   | AI043003,     | AI026436,     | AI81671,      | AI034110,     | AI060234, | AI066494,  |
| AR069079, |             |               |               |               |               |           |            |
| N75118,   | AI022157,   | and Z82211,   |               |               |               |           |            |

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|----------|------|--------|----------|-----------|--|
| HDQEF89  | 1915 | 786393 | 1 - 531  | 15 - 545  |  |
| HDQEF75  | 1916 | 766698 | 1 - 392  | 15 - 406  |  |
| HDQEN22  | 1917 | 931041 | 1 - 508  | 15 - 522  |  |
| HDQES62  | 1918 | 792766 | 1 - 661  | 15 - 675  |  |
| HDQET03  | 1919 | 923015 | 1 - 478  | 15 - 492  | AW269444, AA669114, AW082136, AI914499, and AC000198.<br>AL119391, AA833896, AA833875, AA457070, AI040411, AA721645, AA828739, AA829154, AI017251, AI811653, AA655005, AA834885, AI887716, AW089898, R08918, AA584125, AC004066, AC005209, AC006960, AC004707, AC007664, AC007327, AC007225, AC005828, Z85986, AP000503, AC005375, AF134726, AC008018, AC005944, AC003991, Z95115, AL033527, AI133163, AC006938, AC004993, Z82178, AL035405, AC005011, AC004106, D28126, Z49155, U07561, AC005954, AF002997, U95739, Z81364, Z85987, AL031282, AL008721, AL031673, AC004590, AC006316, AC007388, AC004832, AC007876, AC005516, AC000111, AD000813, AC005763, AC002316, AL023799, AL022312, AL049795, AL034549, AL022165, AC005688, AC006430, AL031643, AC006128, AC004542, AC004552, AL136297, AC005562, AC005783, AL009183, AP000252, AP000030, AP000212, AP000134, AC005996, Z82205, AC007283, AL031281, AC005484, AC006011, AC006328, AC005037, L78833, AC007533, AC006050, U62293, AL050307, AC007540, AC006312, AC007114, and AP000690. |
| HDQET24  | 1920 | 805486 | 1 - 642  | 15 - 656  | AW450053, FI1194, and U91321.  |
| HDQEU26  | 1921 | 950940 | 1 - 503  | 15 - 517  |  |
| HDQEU63  | 1922 | 852614 | 1 - 524  | 15 - 538  | D25538, and Z49806.  |
| HDQEU02  | 1923 | 973212 | 1 - 743  | 15 - 757  | AI142131.  |
| HDQFA01  | 1924 | 924539 | 1 - 1363 | 15 - 1377 | AW297731, AI885498, AA809854, AI831297, AA687107, AA809960, and AI52034.   |
| HDQFC85  | 1925 | 783797 | 1 - 1331 | 15 - 1345 |  |
| HDQFK04  | 1926 | 926758 | 1 - 673  | 15 - 687  |  |
| HDQFTU11 | 1927 | 966106 | 1 - 319  | 15 - 333  |  |
| HDQFW03  | 1928 | 915968 | 1 - 542  | 15 - 556  | AA476647, U25898, and AC005182.  |
| HDQGB04  | 1929 | 852577 | 1 - 500  | 15 - 514  | D79099.  |
| HDQGC76  | 1930 | 950734 | 1 - 486  | 15 - 500  | AL119319, AL042551, AW392670, AL119457, U46346, Z99396, AL119363, AL119341, AL119497, AW372827, AL119443, AW363220, AW384394, AL119484, AL119391, U46351, AL119324, U46350, U46347, U46349, AL119355, AL119496, AL119444, AL119483, AL134518, U46341, AL119335, AL134538, AL042965, AL134902, AL142132, AL119439, AL119418, AL119399, AL037205, AL119401, AL119522, U46345, AL119396, AL042450, AL042614, AL134525, AL134536, AL042970, AL119320, AL134532, AL042975, AL042544, AL043029, AL043019, AL042984, AL042542, AL119464, AL043003, AB026436, AR054110, AR066494, A81671, AR060234, and AR069079.  |
| HDQGG01  | 1931 | 974439 | 1 - 201  | 15 - 215  |  |
| HDQGR63  | 1932 | 875920 | 1 - 633  | 15 - 647  | AC007395.  |

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|---------|------|--------|---------|----------|--|
| HDQGR80 | 1933 | 791744 | 1 - 429 | 15 - 443 | R64617, H86221, AA541532, AA630122, AA312303, AA659360, T47389, AA070927, AL037777, AW188742, AA601237, H84412, AB873759, AA302661, AA019003, AA669711, F35097, AA654874, T71936, AL160786, R72363, AL139054, AC002312, AC005231, AC000379, ZS3844, AL031666, AC009509, AC004103, AL022323, AB003151, AC005695, AL022326, AL021977, AC007199, AL109657, AC005071, AC000353, AC005519, AC006241, AC006449, AC004878, AP000500, AC004134, AC004922, AC004821, AF042089, AC006023, U91321, AC004081, AL034417, AP000688, AF205588, Z93023, AL109952, AL035420, AL117337, AL035400, AP000509, AC006251, AL133163, AL024498, AL034549, AC004814, AC005815, AC004386, AC004491, AC002039, AL008718, AC007551, AL022165, AC005763, AL049780, AC004955, AC002128, AL078581, AF001549, AC004257, AC005081, AC005207, AL022316, AP000210, AP000132, AC004659, AC002418, AC006538, AC005620, AL135744, AL122023, L34294, AC007011, AL050317, AC005038, U85195, AC004910, AC005046, AC004851, AC005089, AL049576, AP000248, AC006006, AC004217, AC004139, AC002395, AC006014, AC005088, AL022327, AL035527, U07000, AE000658, AF196969, Z85987, AC005531, AC003043, AC005225, AL096701, AB015355, Z97054, AL031311, AF111168, AL109628, AC009501, AF001550, AC002126, AC007919, AC005944, AC002369, AC003029, AC002115, Z95116, AL079340, AC004865, AC006047, AC005015, AC005932, AF111169, AC005488, AC003966, Z98051, AC004067, AC005399, AL049694, AL031662, AC005332, AL109865, AC000075, AL109758, Z95114, AC007381, AC007899, AL035684, AL035072, AC006547, AL096791, AD001527, AC004770, AC002073, AC006312, AC004583, AC004996, Z86090, AL01595, AL080243, AC004099, AC003080, AL049776, AC006211, AL049795, AL133246, AC002375, AC007151, AB023049, AC006468, AL050318, AC004815, AC002310, AC002425, AP000345, Z68872, AL022318, AC005049, AC006011, AL035455, AC003042, AC010077, AC004805, AC007308, AL021528, AC007421, AC012039, AC005383, AP000512, AL022336, AC005484, AC006450, AL078593, AC002476, AL022337, AL031291, AC006048, AL109827, AL031432, AL034429, AL003147, AL251973, U91326, AL020995, AC004560, AL121655, AC000120, AC005800, AC005387, AL022237, AC010206, D84394, AC005295, AC005813, AC005632, AC006536, AP000555, AC002072, AC005856, AC002301, AC006948, AL133245, AC009247, AC005261, AL031281, AC002036, AC006077, AC006254, AC007993, AC004694, AF030453, AC004884, and AP000689. |
| HDQGR80 | 1935 | 880654 | 1 - 509 | 15 - 523 |  |
| HDQGT70 | 1936 | 909848 | 1 - 436 | 15 - 450 | AA809589, and AA532423.  |
| HDQHF10 | 1937 | 963485 | 1 - 395 | 15 - 409 |  |
| HDQHK04 | 1938 | 926988 | 1 - 949 | 15 - 963 | AA847392, H45758, AA021644, and AA010967.  |
| HDQHM43 | 1939 | 852556 | 1 - 559 | 15 - 573 |  |
| HDQHO04 | 1940 | 926976 | 1 - 212 | 15 - 226 |  |

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|----------|------|--------|---------|----------|--|
| HDOHQ07  | 1941 | 852555 | 1 - 421 | 15 - 435 | AC005390   |
| HDOHQ08  | 1942 | 811790 | 1 - 502 | 15 - 516 | AA428432, AF033033, AC008372, and Z81304   |
| HDOHQ08  | 1943 | 973129 | 1 - 493 | 15 - 507 | AA04340, AA57782, AW022897, AA601125, W23726, AA161492, AI250561, AW166697, AI345007, AI345797, AA593465, AA226084, AW023662, AA577906, AA484749, AI133448, UA7924, AC006965, AI17352, AI024507, AC005527, AC004584, AC004491, AI109627, AC005049, AC005529, AC006211, AP000356, AC004167, Z85986, AC007242, AC006203, AC004895, AC005952, AC002565, AC005089, AC006536, AC004656, AC005355, AC006251, AP001054, AI121658, AC006538, AI049776, Y18000, AI022237, AC007055, AF030453, AP000558, AP000354, AC002369, AC005495, AF053356, AC004097, AC003109, AI133163, AC005220, AC005747, AC006312, AC007308, AC006012, AF001552, AC004000, AC005391, AC003664, AC002301, AC005015, AC004841, AC007226, AC003983, AL033131, AC002430, AR036572, U91328, AL031291, L44140, AP000008, AP000511, AC004963, AL035420, AC007384, Z93023, AP000704, AC006407, AC006449, AC006238, AC002551, AF111169, AC004149, AC004408, AL021154, AL020997, AC006509, AC009542, AL049709, AC006088, AL035460, AC005500, AC005940, AC005332, AC004967, AC004217, Z98304, AC003098, AC007201, AC005088, AC004522, AC006050, AB017602, AC004671, AC004882, AC006270, U91326, AP000114, AC005726, AC002464, AC006946, AL031276, AL079303, AC005548, AL049636, AC002544, AC005225, AC002094, AC005180, AL008718, AC006130, AP000269, AC005920, AC005102, AC007324, AL109984, AC006241, AC005067, Z95114, AP001052, AC005277, AC003665, AI133485, Z84487, AL031432, AC005841, AF217403, AC004084, AC006057, AL035072, AC006480, AC005081, U80017, AC002472, AC002425, AP000103, AC004520, AC005581, AC007225, Z97055, AC007686, AC007664, AP000332, AC003071, AC007878, AC004983, AC005822, AC003353, AC004834, AC010205, AL050325, AC004020, Z84466, AC004143, AC005409, and AL031281. |
| HDOHT10  | 1944 | 963481 | 1 - 481 | 15 - 495 | W31096, and AC005783.  |
| HDOHZ10  | 1945 | 961336 | 1 - 474 | 15 - 488 | AA179004.  |
| HDOHQZ22 | 1946 | 879416 | 1 - 396 | 15 - 410 |  |
| HDOQH19  | 1947 | 974391 | 1 - 504 | 15 - 518 | AA557945, F16848, AA984829, H68343, AA307623, AA659832, AA368329, HI15241, AA434078, AA569206, AA558404, T47138, F34151, H54252, H53284, AI249519, AA664963, AA610255, AA557790, AA778580, AI732911, W45215, AW265279, F34157, AA470490, AI567391, AA662614, AA368012, AI134332, F31867, AA845333, AA776225, AI671077, AA831919, AA371410, AL004523, T03928, N23504, AI345497, AI049630, AW237905, F24745, H86599, AI114494, AI806042, H43183, AI198718, AI190648, AA078483, D51877, AA846923, AW381821, H52397, H85808, AA846482, AW236277, AI619933, AI828721, AA778962, AA102737, AI800343, AI859744, AA911515, AI065031, AI337612, AA366601, AA225627, AW419389, AW265614, AA610433, AW265276, H58393, AW381823, AI284543, AI054090, AL079734, AA468458, AI929298, AI358928, AA568314, AI929825, AA706229, AA084032.   |

|         |      |        |         |  |
|---------|------|--------|---------|--|
| HDQJ11  | 1948 | 966021 |         | AA715075, AA584810, AA613875, AW2138321, AA644090, AL117258, AL049697, AC002312, AL031133, AC012085, AC007030, AC005914, AC002476, AC005081, AC005015, AF107885, AC003973, AC008372, AC005519, AC004079, AC002492, AL031123, AC006360, Z85996, AP000140, Z68276, AC004841, AL049776, AP000350, AC004383, U95739, AC005697, AC005412, AL121652, AC005736, AC006511, AP000088, AC004882, AC005323, AL109628, AL049844, AP000270, AB007869, Z99716, AC005086, AF064019, AP000563, AC008712, AF053356, AL033525, AF196779, AC007450, Z82206, AC004702, U95743, AL031311, AP000133, AP000211, AC006691, AC005082, AL050348, AL009181, Z86490, AC005349, AL133500, AC0007216, AC006959, AC004020, AL031295, Z98044, AC005332, AC002107, AP000089, AP000141, AC004132, U47924, AL021546, AC004007, AC004953, AC005193, AC006011, AC005520, AC006509, AC004967, AL021391, AC005243, AL031666, AL049778, AC002483, AC006571, AP000032, AC002477, AC009399, AC006449, AF196969, AC006130, AC004253, AC006115, AC005544, Z80232, AC005529, AC004890, AC005566, AC004655, AC004866, AC005157, AC009516, AL121655, AC006064, AC004834, AL133448, Z84467, AL022476, Z98885, AC007637, AL049879, AL034555, AC005531, AP000303, AC000159, AC007151, AL031282, AC007993, AL035410, AC005189, AB022785, AC004938, AP000036, AP000514, AL031291, Z98036, AC005971, AL135744, AL021154, AC004883, AC005913, AL133246, AC002310, AC007199, AL035420, AC005207, AP001052, Z98742, AC005363, AC004985, AC006238, AC002400, AL031432, AL008629, AC006960, AL021977, AC005803, Z82182, AC005067, AP000547, AL109952, AC005682, AL049780, AC007298, AC005696, AC009542, AC002546, AC004033, D87675, AP000553, AL132992, AC005527, AF045555, AC005479, AC010170, Z75407, AL031284, AL031846, AC005952, AL031186, AF043945, AC004142, AP000509, AC004765, AL031728, AC004104, AC002398, AL008635, AP000047, AC002073, AF109907, AL022336, U95741, AC005562, AL049779, AL133371, AC004966, AC005274, AC002094, AL008630, AL031447, AC004185, AL109758, AC004531, AC006121, AC007182, AC005785, AC006553, AL049869, Z99128, AC007056, AC003688, Z83823, L78810, AP000046, AP000114, AC002563, AL008731, AL121825, AC006057, AL109963, AC004554, AC000025, AC005318, AC005878, AL050307, AC006222, AL024509, U91321, AC005080, AL101070, Z97056, Z98752, AL049757, AC004491, AL023553, AC004851, U50871, AL1246003, Z97183, AP000704, AP000130, AP000208, AP000503, AL121748, AC008044, AC002195, S42653, L34294, AC006044, AC005551, AC006088, AP000115, AC007371, AL035458, AC005829, AL109798, and AP000247. |
| HDQMA71 | 1949 | 926528 | 1 - 578 | AA250925, AL610805, AW022188, AL276031, AW204488, AA978318, AA769333, AW340955, AL683013, AL135812, AA767902, H88646, AL271005, AA358212, AA405245, AA242773, AW078958, AL273047, AA491696, AL250660, AW0216945, and AL134115.   |
| HDQMD13 | 1950 | 924108 | 1 - 260 |  |



| HDCQMD14<br>HDCQPI83 | 1951<br>1952 | 783547<br>780731 | 1 - 328<br>1 - 687 | 15 - 342<br>15 - 701 |   |
|----------------------|--------------|------------------|--------------------|----------------------|---|
|                      |              |                  |                    |                      |   |
|                      |              |                  |                    |                      | <p> A1284640, AW301350, AW303196, AW274349, A1754055, AA581903, A1110770, A1334443,<br/> A1133104, A1345518, A1708009, A0702923, A1801591, A1382655, A1281881, A0726827,<br/> A1042420, A1085719, AA483771, A1624142, A1610159, AW265009, A1679132, F36273,<br/> A1210687, A1471481, AW270270, AA164251, A1064864, AA491814, A1119691, A1139719,<br/> AW406447, A1375542, A1046898, A1821714, A1792133, A1791913, A10649642, A10338474,<br/> AA525190, AA908687, A1501552, A1821785, A1053672, AA584201, AA553468, A1801482,<br/> A1340453, A1355206, A1537955, W79504, AW439558, A1110760, AW148792, A1590958,<br/> A1623898, A1148277, A1216051, AA126035, A1431240, AA493708, AW338086, AA521323,<br/> A1731856, A1048925, A1590689, AW088616, A1871722, A1370878, AW162489, A1471572,<br/> A1632991, A521399, A1344844, A806796, A1037554, A1674873, A4601253, F32808, Z98884,<br/> A121757, AC004941, A1212020, Z99943, AC007546, AC002429, AC002994, AF000368,<br/> A1035458, AC006254, AC002524, A1035089, AC006084, AC005244, AC007022, Z84470,<br/> A1133500, AC004386, AC004385, A1035427, A1032821, AC003071, AC003015, AF190465,<br/> AC007537, Z93928, A1049552, AC003962, AC005066, AC004993, AC003015, AC007068,<br/> A109865, A1044792, A135783, AC005670, AC002377, AF029308, AC008079, AF000352,<br/> AC004806, AC007676, A1031885, A1035363, A12121655, AC005011, A1035460, A1031588,<br/> AC007066, AC002302, AC002430, A0036572, U91328, AC007156, AC007384, AF000049,<br/> AC004990, Z76735, A1049776, AP000311, Z98172, AC007363, A1096867, AC004895,<br/> AC007630, AC002115, AC011604, AC002128, AC003553, AC002531, AC004491, AC002418,<br/> A1049867, AC006430, AC005618, A1031397, A1133448, A1011930, AC006079, AC004822,<br/> AF118808, AC000114, AC005385, AF109907, AC004916, AC006037, AC006226, Z97054,<br/> AC004087, AC002402, AP000552, AC006511, AC005261, U91323, A1109628, AF000555,<br/> AC005037, AP000432, AC004838, U85195, A1023494, A1132994, A0006658, AC004998,<br/> AC004912, A1049557, AC006128, A109967, A1003147, A121591, AC002470, AC005837,<br/> AC006539, A1049795, AC007488, AC006210, A1211603, AC006479, AC004987, AC004858,<br/> AC007686, AC002404, A1023882, A1035249, AC005062, A12121653, AC006509, AF004866,<br/> AC005234, AC004755, AP000500, A1049712, AC002996, AC008039, AC004626, AF001549,<br/> AP000354, AC007099, A1031281, AC002385, AC007228, A1034384, AC004884, AC005189,<br/> Z98200, AC007216, A1031311, A1134726, AC005921, AC006525, AC009069, Z92545, X75335,<br/> AC005393, Z97053, AC004933, AC006251, AC003664, A121694, A1096712, AC010206,<br/> AF077038, A1223462, AC006211, A1035494, AC004534, A1096791, AF000557,<br/> AC006561, A1218923, AC004765, Z99129, AC005242, A1021069, Z86061, AC005839,<br/> AC007298, AC005993, AC005808, AC002091, A1021453, AC004972, AC005358, A1035325,<br/> L44140, AC005944, AF003627, AC002394, AC006213, AC003982, AC000085, A1031670,<br/> AC004689, A121748, AC006537, A121580, A1031668, AC004650, A1022311, A1132992,<br/> AC005610, and AC005696. </p> |

|  |      |        |         |          |   |
|--|------|--------|---------|----------|---|
| HDRAB68  | 1953 | 752316 | 1 - 196 | 15 - 210 |   |
| HDTAG28  | 1954 | 765834 | 1 - 159 | 15 - 173 |   |
| HDTAQ55  | 1955 | 728772 | 1 - 353 | 15 - 367 | AA 380977   |
| HDTAY23  | 1956 | 975925 | 1 - 352 | 15 - 366 | AA 504311, W45240, AA431996, F13467, F13502, and H10924 |
| HDTBF27  | 1957 | 683389 | 1 - 759 | 15 - 773 | AA 234529, A1565424, A1624101, A1694224, and AC005021   |
| HDTBL45  | 1958 | 785534 | 1 - 431 | 15 - 445 |   |
| HDTB048  | 1959 | 945083 | 1 - 505 | 15 - 519 |   |
| HDTB074  | 1960 | 765555 | 1 - 453 | 15 - 467 |   |
| AA480145, AA837058, AA663306, F19258, AA713815, AA491814, AA365347, AA551509,<br>A1205126, AA828239, AA826032, A1003172, F26719, A1886176, A1921188, AA515435,<br>A1003743, T16592, AA095511, A054246, W0888058, A1820743, A1565245, AW088202,<br>A1282907, W60516, AW080134, W406447, A1281903, AA340003, AA652764, A053816,<br>A1904894, A1567674, F29989, AA482711, AW301818, AA361344, A1282832, A19393060,<br>A1041368, A1358229, AA318652, A1307426, AA077935, AW406755, AW104748, A1365988,<br>A147413, AW339687, AF177861, AA365144, A1138265, AW361583, A1635272, AA856981,<br>N43757, A1963095, A1791503, A1732546, AA077817, AW071063, A1214510, A1802526,<br>AA450199, F31204, AW071398, A1791290, AW022046, A1921649, H64777, A1679782, F35659,<br>A1989742, A1376100, A1361335, AA292574, AA557325, AA501722, AW074059, AA252763,<br>A1356904, A1922654, T12272, AA515128, A1564284, R72392, AA428414, AA743956, A1570138,<br>A1536555, A1929531, AA077776, AA434484, A1284640, A1537955, A1446601, AW162049,<br>A1251002, AA729264, A1962050, AA228420, AA515051, AA581342, A1890923, AA229785,<br>AA658235, AW029038, AA932099, A1610159, F16273, N25303, A1917271, AA584749,<br>AA653057, A1471481, A166815, AA745410, AA919037, AA243452, AA218645, AW074207,<br>A1610920, A1499134, AA580662, A1138455, A1139968, A1051551, A1286356, A1188469,<br>A1110770, F37286, AA826004, A1053672, A1345675, A139850, A1345681, A1357551, R41717,<br>T06556, A1334443, A1865364, AW008317, AA342958, A1471729, A1048925, A1120674,<br>A1049634, AW193265, A1816537, A1003611, W25284, AA654627, A1951863, AA364567,<br>AA843450, AW401783, AA501784, A1079667, W302101, AA077952, AA829106, A1248679,<br>F32395, A1119391, A1742771, AW276435, A1547286, AA443065, N71724, A1285615,<br>AA652057, AA441788, AA649642, A1149915, AA501344, A1286264, F25203, A13438916,<br>AW340844, A1469172, AA650244, A1493615, AW419262, A1048616, A1312149, AW440836,<br>A105538, AA634855, A174923, A1049722, AA602069, A1046898, N71596, A1912322,<br>A1299050, A1079804, AA558227, AA866584, W302309, AW276827, A1807372, T19998,<br>A1268812, A1133636, AW265294, A1926124, AA904218, AW339568, A1431966, AA559290,<br>A1433187, N27353, A1215788, A1469878, A1040913, A1803348, T40338, AW274101, A121213,<br>AA648110, AA366035, A1951889, A1951928, AA757474, A192740, C06327, A1368745,<br>AA178953, A1043756, AA503258, A1368256, AA302977, A1038785, F18974, A1133164,<br>AC002448, A1034548, A1109756, A1021578, AC004903, A1009181, AC005089, AC006312, |      |        |         |          |   |

|         |      |        |         |          |  |
|---------|------|--------|---------|----------|--|
|         |      |        |         |          | AC006153, AC001234, AC004027, AC004254, AC002476, AL031121, AL035458, AC006333, AC002982, AC004088, AP000692, Z86061, AF015168, AL031734, AC005099, AC003119, AC006984, AC002542, AC005331, AC004460, AC004020, AL136295, AC005999, AP006222, AC012627, AF060568, AC005911, AL117258, AL049829, AC004236, AC004522, AL050338, AC007845, AL121603, AC006285, AC005084, AC016025, AL049776, AL022323, AL034419, AC002504, AL109764, Z74739, AC004458, AP000474, AC005064, AL109799, AC002072, AL031577, Z65382, AC003029, AC004041, AC000083, AC002117, AP000017, AP000158, AC006539, AL109622, AC000097, AC006547, AC005040, U47924, U91324, AC007059, AC004520, AC003088, AC004491, U95739, AL031432, AC006128, AC008055, AC004167, Z82216, AC005324, AL035072, AC006561, AP001037, AL049691, Z84480, AC003009, AC005389, AL080286, AP000954, AL121915, Z71187, AC006352, AC007239, Z97053, AC006992, AC004617, AC002056, AL110502, AC002432, AL033381, AL096701, AP000355, AL121578, U14702, AC006241, AF015163, AC007191, AC003101, AC006208, AC004916, AL031584, AF029308, AL049554, AC005004, AC001530, AF140763, AF015170, AL031709, AC005755, AC005866, AC005186, AL031770, AC005194, AC006552, AC007358, AC006384, M87918, X67277, AR042836, AC007285, AC005751, AC005838, AL031279, AC004785, Z84485, U78027, AC002462, AC003104, AL035422, AC005666, AC007227, AC016026, AL021937, Z92542, AC007056, S75201, AC002553, AL096734, AL078604, AC004186, AC003960, AF045448, AL049758, AF121781, AC008103, AC002558, AC004230, Z82203, AL049589, AL008634, AC022517, AC007325, AL003147, AC006972, Z83819, AF053356, U14703, AC004534, AC006207, AC006840, AC005280, AL109802, AF201337, U80017, AP001172, AC004526, AC004960, AC005778, AC005066, AC004675, AF067122, AL033525, AC007151, AP000306, AP000047, AL031905, AC003085, AF131217, AC008062, U62317, AC006195, AC004381, AC004827, AP000115, Z99129, AL078593, A1000170, U91322, AF137396, AC000075, Z98046, AC006323, Z97635, AL034373, AL031735, AC005664, AL022394, AC007671, AC005225, AC007370, AL035665, AL049696, AF117829, AC006638, AC004931, AC007193, AF0883219, AL020996, AL109654, AC008015, AC005746, AC007320, AL133245, U12583, AF147277, AF023460, Z68328, Z97196, AL035468, AC007242, AL049760, AL031280, AL035258, AC007254, AP000432, AC006975, AL035469, AC009044, AL023513, AC004886, AC006952, AP000154, L13713, AC004638, AC002375, L13714, and AC002523. |
| HDTBO94 | 1961 | 869818 | 1 - 562 | 15 - 576 | N69991, W47065, AW368643, AW40968, W00799, W04207, AL420674, AW027417, AA779727, AA736509, AW263261, AL090172, AA814921, AL924139, AA375842, AA375767, AA494558, AL422731, W46965, AA969233, AL142954, AL161089, AL167233, AA737756, AL681576, AA449149, AL049415, A61271, and A61272.   |
| HDTBQ20 | 1962 | 886757 | 1 - 458 | 15 - 472 | AA625147, AL044429, N95514, AL521188, M78692, AA083339, AA625350, AA916868, R46588, and AA935301.  |
| HDTBQ34 | 1963 | 703446 | 1 - 453 | 15 - 467 |  |

|         |      |        |          |           |   |
|---------|------|--------|----------|-----------|---|
| HDTBQ47 | 1964 | 720298 | 1 - 369  | 15 - 383  | A1933595  |
| HDTBQ56 | 1965 | 799840 | 1 - 1310 | 15 - 1324 | <p>A1384076, N21097, A1167276, A1275519, AA495978, AW103498, AA235681, A1224882, A1565119, N31109, A1797229, AW130630, AA425033, AA490486, A1635704, A1463474, A1766927, AA616793, AA490788, AW188888, A111440, A1787383, AA236876,</p> <p>AA860394, A1659377, A1440726, A1479292, AA514684, A1499886, A1500523, A1539800, A1340519, AW082532, A1047344, AA641818, A1648699, A1915295, A1345415, AW148536, A1040011, A1625926, A1446511, A1287233, A1445256, A1952493, A1042515, AW198133, A1500061, A1451632, A1571442, A1470717, A1611738, AW055252, A1890907, A1686690, A1023871, A1453248, A1860027, A1872423, A1378123, A1678446, A1288305, A1571099, A1309300, R81679, A1500714, A128239, A1874261, AW089844, A1038715, A1966603, A1095003, A1765198, A1559619, A1683395, A1824361, AW081866, A1630928, A1540354, A1624938, A1309306, A1633125, A1434969, A1783785, A1271796, A1417790, A1859991, A1799313, A1686565, A1620864, A1538885, AW129264, AA604875, A1568293, A1433994, A1539723, A1638644, A1020381, AA503384, A1572096, A1539690, A1061405, A1534568, A1635634, F35031, A1041150, A1863382, A1923989, A1690813, A1524179, A1554301, A1917428, A1623736, A1432040, A1699020, A1440238, AW151136, AW022636, A1666465, A1570861, A1589428, AW021189, A575922, A1620056, AW163554, A1680221, N22276, A1565172, A1862043, A1950729, A1631216, A1174799, A1731184, AW075382, A1658566, A1438854, A1499335, A1623396, A1683173, A1866458, A1241741, A1648454, AW166937, A1590043, F34241, A1554283, AW083750, AW105613, AW193620, AW262491, A1439452, A1613314, A1469104, A1702019, A1537273, A1801325, A1873644, AW058341, AW151831, A1744243, A1340559, A1818562, A1312963, A1361701, A1865906, AW104641, AW088145, A1291214, A1539080, A1917331, A1582871, A1436458, A1699581, A1274655, A1036548, AW167146, A1648494, A1621341, A1524654, AA808175, A1656270, A1679550, A1671429, A1698391, A1538564, A1818240, A121564, A1915291, AW152182, A1538575, A1801064, A1582932, A1560545, A1619820, A1735654, AW021662, AW195253, A1434731, A1827058, A1120987, A1348901, A1539667, A1889189, A181102, A1521560, A1521005, A1872545, A1479577, A1079226, A1538764, A1473536, A1927233, A1539260, A1095192, AW151893, AA693444, AW196720, A1866469, AW161156, A1422855, AA502794, A1559752, A1884318, A1355779, AW238688, A1114703, A1376623, A1570056, A1815233, A1632036, A1537408, AW021717, A1566399, A1917252, W74529, A1918809, A1336586, AW080700, A1583484, A1797578, AW268306, A1579618, AW051453, A1701097, A1636507, AW090001, A1345612, A1043326, A1263331, A172487, A167464, A1739986, A117575, A1117416, A1133665, A189787, A10319, A1137530, U62966, AF013214, AF162782, Z37987, AC007043, A1050024, S68736, A1032822, L31396, L31397, A1109672, A08916, Y13350, A1133075, X66366, X00474, S61953, L04849, A1080110, A176651, E01614, E13364, A08910, AR050959, A089369, AF106862, A0938554, Y10655, D44497, A1049382, AF111851, AF118092, AF185614, AF182215, B9947, AF113694, A1117429,</p> |

|         |      |        |         |          |  |
|---------|------|--------|---------|----------|--|
|         |      |        |         |          | XG3162, AL049452, AF0900934, A08907, AL122049, A08908, X78627, AL050143, A08912, A08911, L04852, S36676, AF124728, E06743, X99226, AF143957, AF166271, AF06586, AL050092, AL137550, S76508, AF100931, I48979, A08913, AL122093, AF124435, AF11849, AL023657, X83508, AL110199, A57389, A65340, AL137461, U58996, AF137284, AL117649, AF090903, Y14314, S82852, AL133112, D83032, AR022283, AF000167, AF067790, AF017437, A94579, A65336, AL117587, X89102, AL137281, AL137711, D62077, AL050153, AF116573, Z97214, S78214, AL137300, AL035458, S54890, AF111112, A08456, Y16258, Y16257, E02756, Y16256, A65341, AL080146, E03671, A0807812, AF017152, AF090900, AF184965, AF177401, AL137547, A010277, AL137488, AF030513, AL080129, AL133565, A21101, AL080118, AL15345, E15582, X66862, I28326, AL110196, AL049464, A012755, AF132676, AF066136, I46765, AF076633, AF106697, AF12208, A03736, AL122121, I03321, AF090028, Z82022, X55446, AL117435, AR068466, AL049347, I89931, AF077790, E07108, S83440, AL136842, AL117440, X01775, AL049466, AF054831, U75604, S77771, I49625, S83456, AF113690, AL18777, AF113677, A86558, AF047716, AL137256, E12579, E12580, AL133010, X65873, AF102578, AF081197, AF081195, I00734, E12747, AR029580, I79595, AF002985, AL117648, AL122110, AR020905, AL136884, A31057, AF175903, AL049439, AL133080, A77033, A77035, I33392, AL133640, AF141289, AL050277, AF183393, AL0496744, AL110221, Y09972, E00617, E00717, E00778, AF19373, AF008439, Z35309, AL133623, I25222, I89934, E05822, AL049324, I02475, AF118090, E02349, X30514, AL050172, Z13966, AL137529, AF061795, AF151685, U73682, I04943, AF185576, AL080148, AL080126, AR034821, AF058809, Y00093, AL137476, AR053103, AL133558, AL133560, AL080124, AL133559, U54559, AL137258, and A123878. |
| HTDBR15 | 1967 | 660236 | 1 - 449 | 15 - 463 | AT753313, AF004877, and AC002528.  |
| HTDBR50 | 1968 | 846630 | 1 - 453 | 15 - 467 |  |
| HTDBV02 | 1969 | 920008 | 1 - 461 | 15 - 475 |  |
| HTDBV18 | 1970 | 893761 | 1 - 367 | 15 - 381 |  |
|         |      |        |         |          | D25267, AAG35901, AC005399, AC007227, AC004685, AL022316, AL080243, AC005324, AF064858, AC005305, AL021937, AF003626, AL049694, AC005330, U80017, AC005031, AC005874, AF134471, AC005920, AC004883, I007563, AC004938, Z98946, AL033527, AC007052, AL049631, AL022345, AC007263, AC004491, AC005571, AC005756, AC005726, AC006013, AL031597, AL033517, AC005409, AC003663, AC004253, AL049776, AC006014, AF000466, and AL049871.   |
| HTDBW52 | 1971 | 726060 | 1 - 507 | 15 - 521 | AC000456.  |
| HTDBX47 | 1972 | 719530 | 1 - 424 | 15 - 438 | AA868305, A1700890, AA789239, A1803004, A1694352, AA043382, F08474, R21498, AF121813, AF112184, and AC005354.  |
| HTDBY88 | 1973 | 934472 | 1 - 495 | 15 - 509 |  |
| HTDTC60 | 1974 | 740350 | 1 - 390 | 15 - 404 | AA864722, AA319763, AA248838, AA193325, AW367238, AL688661, A1921062, AW024122, and AW130404.  |

|         |      |        |         |          |  |
|---------|------|--------|---------|----------|--|
| HD1DA45 | 1975 | 799875 | 1 - 697 | 15 - 711 | T97833, T97457, and R09138   |
| HD1DC23 | 1976 | 675331 | 1 - 511 | 15 - 525 | AI471372, AA302155, AA130647, AW402145, AA599063, AI192863, AL035587, AC005164, AC005562, AB001151, AL050332, Z83840, AC005261, AC004185, AP000509, D843394, AC002477, AC007917, AF111163, AL035353, AC005089, AC005829, AC005529, AC000114, AC005512, AP00496, AC005399, AC006948, AC004076, AP000150, Z47046, AF001078, AF030876, AC004263, AP000009, Z98884, AC003498, Z98885, AF196970, AC006251, AC007228, AC005940, Z68162, AL004882, AL031650, AC004796, AL009181, AL049867, AC005520, AC007630, AL022069, AL031000, AL121655, AL117258, AL049829, AL024498, AC006137, AC003690, AP000215, AC007308, AC002470, AC006539, AC006057, AF207550, AL034429, Z82198, AC005822, AC003035, AC006538, AL008582, AL022218, AL031595, and AC006241   |
| HD1DC53 | 1977 | 916348 | 1 - 220 | 15 - 234 | AI205597, AI018716, AA952883, T66939, W86678, AA122311, AL208307, AA843726, AL090688, AW243845, AA618005, RI5055, C00676, AH76338, AA371098, AL119399, AL042382, AL079794, AL043152, AL119511, AL288285, AL119457, AL621341, AL043168, AL042544, AL041150, AL506674, AW029401, AL037582, AW168485, AL037602, AL095003, AL038529, AL037454, AL698391, T95813, AW023846, AL036705, AP950664, AW083573, AL183838, AL638644, AL042191, AP963846, AA857847, AL679214, AA908294, AW264727, AL537677, AL538055, AW152182, AP915295, AL868740, AL589428, AW103628, AL866465, AL587000, AW051088, AL758512, AL564290, AL267162, AL079740, AL500061, AL434731, AW022636, N29277, AL553645, AL781792, AL590043, AW020197, AL571551, AL557238, AL678773, AL099570, AL872433, AL119324, AW162194, AL036249, AL802542, AL241901, AL119663, AW082088, AL147292, AW163834, AL683475, AL745329, AL609760, AL559991, AW021373, AL094749, AL345415, AL623941, AL046473, AL289791, AL567971, AL446704, AL280732, AL250627, AL610446, AL559752, AL312210, AA829061, AL249877, AL046595, AL472566, AL561356, AL612913, AL043355, AL538850, AL039086, AW023338, AA805434, AL620810, AW089275, AL813633, AL568114, AL539800, AL309306, AW059713, AL267185, AL75371, AL355779, AL582932, AL682798, AL860673, AL524179, AL041996, AL280607, AL679211, AW161156, AL673363, AW020419, AP29108, AL583032, AL345688, AL040449, AL634919, AL045266, AL680270, AL342023, AL590686, AL536685, AL783997, AL71429, AL866780, AL001697, AL801325, AL046466, AL884318, AL796743, AL433968, AL712884, AL860652, AW104683, AL589004, AL679506, AL99823, AW024374, AP975952, AL167680, AA503384, AL288050, AW105431, AL354998, AW129616, AW086226, AL573060, AL242246, AL566172, AL610293, AL655932, AP953767, AL567846, AL135065, AW128834, AW132071, AL524054, AA811948, AL683173, AW008166, AW024275, AL110663, AL589134, AA7166104, AL624529, AW050578, AW088899, AL69505, AL118781, AL635092, AL890391, AL923989, AL284517, AL368579, AL678599, AL912458, AL274507, AA479803, AL811840, AL864102, AP917963, AL538764, AW193872, AL824576, AW163554, AL538637, AL625701, AL366922, AL627604, |

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|--------------------|--------------|------------------|--------------------|---|
|                    |              |                  |                    | AI251221, AW403717, AI371251, AI270295, AI478902, AI432644, AA580663, AW148536,<br>AI422688, AW085560, AI921092, AW151136, AL040011, AW008353, AI288305, AI676003,<br>AA641818, AI540438, AI468872, AL048323, AA808175, AI567582, AW132001, AI446373,<br>AL048340, AI648458, AI281577, AL047675, AI119791, AI252077, AI889189, AI932794,<br>AW021717, N71180, AW029186, AW129264, AW073907, AI343091, AA333061, AA768046,<br>AI335363, Y11587, U77594, U35846, AI137480, AF132676, AF061836, AF030513, I48978,<br>AL049347, AF047716, AF026816, I167328, AI133075, AI133113, Z97214, I89947, AI133637,<br>AF097996, AI122098, AF071752, AF146568, AR034821, A65341, AI133049, S83440,<br>AB08753, AB012626, AI137271, AI118092, AI137554, A93350, A08910, A08909, A65340,<br>A08913, AF102578, S61953, A08908, AR020465, AI133067, AI137557, A77033, A77035,<br>I33392, U95114, A08912, U37359, I09499, AF177401, AR038854, AI133072, E02221, S77771,<br>AL023657, AI137550, AF106862, AI18777, E12747, X63162, S76508, AB029065, A21103,<br>AF126247, AF067728, U49434, AF104032, A08916, AF113689, E05822, X08834, I79595,<br>AF002985, I18355, AI117587, AL050172, AI110296, AI133557, X92070, A08911, I34392,<br>AI110218, A08907, AI122110, AI117463, AI110197, M96857, Z37987, AI122100, AI137533,<br>S53987, AL080148, AJ005690, AR053103, AI137523, I48979, AI238278, I87620, S60510,<br>Y14314, Y07905, I89931, AI136884, AI080159, AF183393, AF111849, I89934, AI110225,<br>AF061981, AF139986, X72889, I49625, AF106945, AF145233, AI049339, Y10823, AF087943,<br>AL080140, I24032, Z82022, U55017, X67688, AB007812, M27260, AI137547, A1010277,<br>AL122093, AF008439, U49908, AI133560, L04504, E01314, AI137529, A45787, S68736,<br>I32738, AF106657, M92439, AI133665, I04849, AF1137528, AF113677, A1000937, I89079,<br>A76335, AR029490, AF195092, AF180525, AI137488, AI133112, AF182215, A23630, I00734,<br>AI5345, X98066, AF067790, AF031903, AI137286, Y11254, AI122104, AI137530, AL080154,<br>I26207, AI242859, X84990, AI137574, E00617, E00717, E00778, AI137294, X72387,<br>AI137521, AI122121, X83508, AC003032, U75932, AR013797, X82434, S36676, X79812,<br>X87582, Y10936, AL049430, AL049460, AF107847, AI122106, AF017790, X55446, AI137711,<br>AF185576, AI10224, D16301, X81464, AI117648, I54559, AL050277, Y13350, AF026124,<br>AF205861, I03321, AI18788, AC004227, Y10655, S75997, AF162270, X66862, AF215669, I33391,<br>AI133600, AF111851, X52128, AI117460, I17544, AI137256, AI122118, AF090901, X0736,<br>AI137292, I68732, AF113691, I13297, AF111112, D81989, AF113694, Y10080, AI10222,<br>AF036941, AI137640, X83544, Z72491, AF210052, AI117583, AF031147, AI137459, X06146,<br>AF07108, AF040903, AL050116, AF058921, U00686, AF040751, AI110228, AB030279,<br>AF057400, AI012755, AF057299, AI137479, AC002467, AL050170, AL080124, AF169154 |
| HDTD049<br>HDTDG42 | 1978<br>1979 | 799872<br>713588 | 1 - 448<br>1 - 445 | 15 - 462<br>15 - 459  |

|          |      |        |         |          |  |
|----------|------|--------|---------|----------|--|
|          |      |        |         |          | AL049836, AC005585, AC008372, AP000201, AL049776, AC007225, AL031283, AF207550, AC005578, AP000097, AL080242, Z83844, AC004703, AF001550, AC005837, AL009181, AC005781, AP000043, AP000111, AC005089, AC007283, and AF050154   |
| HDTEG370 | 1980 | 587730 | 1 - 418 | 15 - 432 | AL022396   |
| HDTE188  | 1981 | 868565 | 1 - 707 | 15 - 721 | AL040351, AL1859347, AA768342, A1864674, N80197, AA130959, A051671, AA043186, A0121548, AA087515, AA100477, AW193146, W04309, N21020, H04056, A1187288, AA944332, N21128, N47889, A952434, AA975893, AA045598, H09056, A154682, AA621534, A1859814, A10089493, A4530873, AW275917, A1025466, N02869, AA768319, AA417265, A1567303, AA828283, A1289086, AA729835, A1564973, A580315, A5052495, A119448, T40562, A1289415, A1029892, A1014387, AA917482, AW088039, AA587755, AW190165, A1371694, A018462, AW37665, A1083853, AW103201, AA868207, H81296, A1920875, A1833059, A1288157, D12288, R63140, A1942324, A1873582, A1699667, A1091426, AA127712, AW406948, D12293, A1074395, AA342276, A1955989, T91580, A1350331, AA053266, AW138496, AA342277, A1873968, AW084334, T91268, A1816957, D12294, AW351513, R83013, A1868829, A1202723, A1202414, A1908913, AA353671, T98269, A1908912, AA193223, A1866230, AA807562, C75247, A1144388, AW37656, W22908, AW381854, AW381856, A1864799, A1802279, T91628, N74141, A110801, AA788629, A1815642, AA370966, AA417302, AA894373, AA314322, A1122042, and AC007842. |
| HDTEP37  | 1982 | 571417 | 1 - 513 | 15 - 527 |  |
| HDTE133  | 1983 | 587773 | 1 - 541 | 15 - 555 | T12054, and T12053.  |
| HDTE119  | 1984 | 912765 | 1 - 399 | 15 - 413 | A1365424, AA761247, A1270301, AA903663, AA461365, A1124751, A1493506, AA946682, A1739428, A1990438, A1312115, A1927988, A1638765, A1830148, A1719606, A1561007, A1934691, A165522, and X56389.   |
|          |      |        |         |          | AL035965, and AC006501.  |
| HDTE130  | 1985 | 915445 | 1 - 475 | 15 - 489 |  |
| HDTE069  | 1986 | 650840 | 1 - 618 | 15 - 632 |  |
| HDTE550  | 1987 | 964709 | 1 - 423 | 15 - 437 | AW340512, A1807894, AW082409, AW054749, and R04399.  |
| HDTE555  | 1988 | 731197 | 1 - 560 | 15 - 574 |  |
| HDTE133  | 1989 | 835596 | 1 - 429 | 15 - 443 | W02422, and AA013353.  |
| HDTE123  | 1990 | 675407 | 1 - 360 | 15 - 374 |  |
| HDTE153  | 1991 | 738221 | 1 - 108 | 15 - 122 | T86673, AW190189, and A1193121.  |
| HDTEF51  | 1992 | 924898 | 1 - 491 | 15 - 505 |  |
| HDTEF26  | 1993 | 681234 | 1 - 605 | 15 - 619 | R80296, AW235653, A1949101, AA470449, AC002044, AC005234, X54171, AP000348, AC006230, AC007129, AC005274, and AC004230.  |
|          |      |        |         |          |  |
| HDTEG59  | 1994 | 893721 | 1 - 213 | 15 - 227 |  |
| HDTE115  | 1995 | 953336 | 1 - 641 | 15 - 655 | A1765425.  |
| HDTEG103 | 1996 | 923452 | 1 - 615 | 15 - 629 |  |



|         |      |        |         |          |   |
|---------|------|--------|---------|----------|---|
| HDTC64  | 1997 | 799860 | 1 - 133 | 15 - 147 | AA489578<br>R69491  |
| HDTC67  | 1998 | 682689 | 1 - 416 | 15 - 430 |   |
| HDTC67  | 1999 | 855719 | 1 - 562 | 15 - 576 |   |
| HDTC67  | 2000 | 724545 | 1 - 227 | 15 - 241 |   |
| HDTC67  | 2001 | 785047 | 1 - 369 | 15 - 383 |   |
| HDTC67  | 2002 | 726197 | 1 - 100 | 15 - 114 |   |
| HDTC67  | 2003 | 838813 | 1 - 345 | 15 - 359 | AA745404, N23046, AI057391, AA001345, AC003101, AC004526, AL031670, AC0009721,<br>AL109748, AC004256, AC004090, AP000152, AP000010, AL021155, AL022130, AC005007,<br>AL023584, AP000346, AC005909, AC003086, AC000379, AL023553, AC006543, AC007283,<br>and AC006011  |
|         |      |        |         |          | AR035806  |
| HDTHB41 | 2004 | 711849 | 1 - 475 | 15 - 489 | AC004611, AC005551, AL096701, Z97054, AC005529, AC003101, AC005527, AC005011,   |
| HDTHB41 | 2005 | 795180 | 1 - 494 | 15 - 508 | AF053356, AC004813, AC006965, AC004985, AC004167, AC002375, AC002565, AC005874,   |
| HDTHB41 | 2006 | 789790 | 1 - 616 | 15 - 630 | AF134471, AP000036, Z83844, AC003684, AC005622, AL112987, AC005837, AC005102, and<br>AL049780   |
| HDTHM43 | 2007 | 851854 | 1 - 483 | 15 - 497 | AW089395, AI053518, AL145012, AI138008, AA837739, AA664248, AA610530, AW238137,<br>AA837796, AA993165, AW238250, AA084950, N70293, AA599749, AL047254, AA594220,<br>T05354, AI121706, AW161966, AA001398, AI683742, AA666066, AW440424, AL223626,<br>AA583579, AW130446, AA583568, AI568849, AI274006, AP21692, AI567831, AI445708,<br>AA586553, D25667, AI889648, AI611487, AI336206, AA654038, AA638918, AA047045,<br>AI572680, AI888861, AI118567, AW774119, AW021519, AA649660, F03603, AI375036,<br>AI083707, AI246061, AA599080, AA832124, AA832152, AA6470958, H06309, H07461,<br>AI205348, AI134332, AA324525, AI036070, AI054099, AI761566, AI114645, AI872117,<br>AI744381, AI249853, AI284543, AI254770, AA295893, AA295899, H77666, AW149972, AA564082,<br>AI250532, AA304790, AA078088, AA295893, AA295899, H77666, AW149972, AA564082,<br>AA347653, AA780648, AI521042, AW327559, AA468289, AA911520, AI732682, AI869786, AI022583,<br>H37892, AC002073, AL031284, AC004895, AC002347, AB020863, AI023880, AL049543,<br>AL1137474, AP000959, AC004522, AC007387, AC005274, AC004131, AC004859, AC005519,<br>AF061032, AF003626, AP001052, AC005664, AC008134, Z98751, AC005924, AC004837,<br>AC000097, AL031663, AC006547, AC002351, AC000025, AC005527, AC005529, AL034555,<br>AC004150, AC00379, AC002049, AC002054, AI117328, AL021332, AC004701, AC002472,<br>AP000550, AC007664, AC008018, AC005358, AI133216, AI080243, AI035457, AI049569,<br>AC006211, AL030997, AC007227, AC000083, AL031287, AL031775, AL033517, AL021878,<br>AC004686, AP000346, AC002312, AC007695, AC004778, AC005800, AL031848, AC006210. |

|         |      |        |         |          |  |
|---------|------|--------|---------|----------|--|
|         |      |        |         |          | Z92542, AL050332, AC007637, AC005747, AP000355, U77080, U77078, AC008042, AL049829, AC004181, AC002299, AC005695, AL049591, AF104934, AC005017, AP000555, AL022318, Z85996, AC002091, AP000350, AC004149, Z97030, Z68323, AF117829, AC005005, AC003042, AL034379, AL034417, AC005375, AL079342, AC003693, AC006449, AJ006345, AC005562, AL117338, AC002331, AL009031, AC004448, AL099882, Z93020, AL132987, AC003108, AB026899, AC009263, AP000352, AC004953, AC005723, AL049779, AC005952, AC005086, AP000260, AP000099, AP001065, AL034369, Z83840, AP000036, AC022517, AC007226, AC004083, AC006115, AC007176, L44140, AF049895, AC005531, AL031667, AC005186, AC004106, AC005903, AP000068, AC005865, AC004955, AC005247, U91318, AC005189, AL049844, AC005480, AL109798, AC004381, AC006160, AC002991, U15422, AL121652, AD000812, AC003110, AC004017, AC007746, AC002126, Z99127, AL035416, Z98941, AC006120, AC005740, AL049781, AC002368, AC007240, AF001550, Z98742, AC002128, AC007676, AC007919, AL078639, AL031433, AC006688, AL121923, AL135744, AL031282, U47924, AL022238, AC002551, AL024494, AF051976, X77825, U77079, U77081, AC005049, AL050306, AL049697, AC007371, AL031685, AC007386, AL008582, AC005913, AL022302, AJ229041, AC005730, AC007684, AC001644, AL066703, AC006959, AL031588, AL031056, AC007444, AL121871, U96629, AC006312, AP000504, AC007056, AP000353, AF071746, AC006950, and AC002404 |
| HDTHQ15 | 2009 | 923899 | 1 - 599 | 15 - 613 | AA215544, AA262119, D87446, and AF060565.  |
| HDTHQ55 | 2010 | 799859 | 1 - 417 | 15 - 431 |  |
| HDTHW16 | 2011 | 799859 | 1 - 623 | 15 - 637 |  |
| HDTHZ46 | 2012 | 957669 | 1 - 362 | 15 - 376 |  |
| HDTHB38 | 2013 | 971665 | 1 - 922 | 15 - 936 |  |
|         |      |        |         |          | H59787, AA911636, AA631183, AI025526, AI923762, AI740793, AA743390, AI202128, AI604888, H82705, and AI368872   |
|         |      |        |         |          | AI872294, AW207586, AW195605, AI603146, AW075561, AW068887, AA931676, AI758241, AI799473, AI031659, AI419921, AA961774, AI155364, AI190742, AW451406, AA598664, AA603695, AW057857, AI807320, AI510700, NS0786, AA717532, AA766363, R69978, AI124003, AI445187, AW102731, H04784, AI122873, R69607, AI253794, AA897328, AA598571, AI540516, D19777, AI267421, N55144, H04882, AA334830, and AI135745   |
|         |      |        |         |          | H82510   |
| HDTHC48 | 2014 | 828038 | 1 - 406 | 15 - 420 | AA0847253, AI189117, AL088925, AI801482, AI284640, AL040409, AP63720, AL042753, AA127535, AI679782, AI270171, AW406755, H71429, AI134443, AW419262, AW072587, AH431303, AI570261, AI133164, AW276827, AI368745, AA490183, AW193265, AI613280, AW302013, AL119691, AI364020, F36273, AA610491, AA043719, AW303196, AI281581, AI550211, AA523810, AW261871, AI858451, AI434695, AI538229, AA581903, AW301550, AI061143, AI567076, AW754336, AW127868, AD200168, AI143242, AI741664, AA984708, AW088846, AI538852, AA503473, AA649542, AA649484, AA491814, AI1365988, AA679481, AL138265, AH71543, AA577906, AI061334, AW265393, AA680243, AW270270, AW274349,  |

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A9071404, A900126, A900204, A0004966, U85105, A1031427, X54178, A1211643,  
A008123, A004491, X55926, A0058357, A008045, A005585, A1031347, A0007666,  
A48489, A1035422, A1049761, A0046161, A900142, A0006004, Z94055, A0006157,  
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A006597, A005215, A007227, A005324, A0050919, A1023656, A000484, A005632,  
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|         |      |        |         |          |   |
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| HDTID61 | 2016 | 908946 | 1 - 730 | 15 - 744 | AC002544, AC005076, AC004253, AC005071, AC006441, AC005868, AF015160, AC005031, U18395, Z93016, AC006051, U191326, AC007226, AL132992, AC006040, AL132983, Z54073, AC004013, AC005104, AC004033, AL080243, AB019438, AC007731, AC003670, AC004016, AL109618, AC002432, AC008012, AL023316, AP000555, AC004948, AC004019, AC004062, AL050308, Z98745, AC005775, AC005342, AL035086, AP000211, AP000133, AL078644, AC018769, U18392, AC007878, AC005668, AC002195, AC006277, AC004040, Z98950, Z97106, AC005081, AC005527, AF015149, AL021247, AL031770, AC004502, AC005553, AF031076, Z82901, AC005666, AL021940, AC003015, AP000504, AP000090, AC005529, Z75741, AP000350, AC003986, AC005011, AC002429, AC006480, AC005242, AL121632, Z83855, AC005684, AC006501, Z78901, AL049830, AL022328, AC002545, AC008079, X55925, AC006544, and AF077058   |
| HDTID61 | 2017 | 883070 | 1 - 515 | 15 - 529 | AW439565, A1827530, A1887525, A1890158, A1859703, A1818200, AA749212, AA430563, AA883993, AA029288, A1095763, AA043743, H03766, A1598263, A1645474, A1079917, A16243702, AA453390, A1634584, AA132531, A1610785, N51151, AA602187, AA971019, A1926025, A1279436, A1220990, AA886001, A131171, AA969116, A1818902, H02869, AA579993, AA021433, A1922025, AA369249, A1469540, AA021150, A1300047, H88995, N47896, R70915, AA043742, A1922025, AA912768, A1926028, AA917998, AA029756, AA84867, A183313, AA342184, A1873839, AA433979, A1617094, A1017196, AA866089, AA993239, A1831991, AA028917, A1926057, AA911119, H88778, AA283401, and AA283400  |
| HDTID61 | 2017 | 883070 | 1 - 515 | 15 - 529 | AA938105, F98945, A1133516, A1061646, AA767276, AA524821, T74382, A1313166, AA219225, AA0224525, AA601348, A1093030, AA083046, AA502104, AA531580, AA836811, AA081825, T40308, A151713, AA601294, AA440545, AA846568, AL046586, A1074346, A161966, AA765736, A1138254, AA774222, A10745747, AA468456, AA377927, A1774780, T56253, N70044, R70821, A107407632, A1471603, AA806799, A1499134, R80876, A1826263, AA614180, AA634889, H46122, D82542, AA664099, A1345654, A1708009, H40936, AA483929, A103758, A1305766, A1284640, A168453, A121894, AC005569, AL121603, AC002470, AC004167, A1031846, A1035420, AC005412, AC007021, AC005280, AL096774, AC003043, AC006084, AC004738, AC003664, A1031255, AC000052, AL035400, AC007731, AL049780, AC005531, A1031767, AC007055, Z83819, AC004149, AC002301, AL080243, AC004150, AC005300, AP000553, AC002072, AC0009516, AL034549, AC004263, A139054, AC0040019, AC006285, AC004675, AC004859, AL049758, AC005084, AL027221, AL035587, AC004016, AC005694, AP000966, AF088219, AC007216, AL022165, AC004895, AC003108, AC006042, AP000555, U80017, AC000026, U85195, AC006241, A1031447, AC004216, Z95118, AC000904, AL031577, AC005031, AC005670, AC000087, AC004797, AC004815, U72787, AC005911, AC007057, AL023316, AC005089, AC002476, AC005666, AC005003, AL023302, A132712, AE006658, AC002059, AC004765, AC006146, AP000133, AP000211, L44140, A117347, |

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|         |      |        |         | AC020663, AL121652, AC002456, AC006530, AC005479, AF067844, AC003101, AC004099, AC005920, AF109907, Z81364, AL031680, AC005527, AL022238, AC005104, Z80851, AL049636, AF001349, AC009179, AC006441, AC004230, AC012384, AC004820, AL023575, AC002565, AC005081, AC003029, AL096712, AC003003, AC007226, AC007240, AC006090, AC002465, AC004990, AL121595, AL133371, AC002991, AL049759, AB023051, AC006211, AC005562, AC005075, AC005839, AC002310, AC007681, AL031685, AP002057, AC005150, U91122, AC007114, AF010238, U47924, AC005158, AL020995, AC005516, AF039407, U95742, AC005783, AC006026, AL131653, AC000025, AC007676, AL080317, Z99716, AC005037, AC005180, AC003913, AC005179, AC002067, AC005071, AC005620, AC008079, AC004890, AF000210, AP000132, AL049776, Z94721, AC006205, AC002368, AC006538, AC006450, AC004835, AC005529, AL011930, AC004999, AC007537, AL023803, AC005353, AC004067, AP000512, AC003950, AL031584, AC004913, Z95114, AC007193, AL109865, Z83822, AF172277, AP000098, AC005360, AC007050, U95740, AL022476, AL132777, AC007842, AC004878, AL034420, AL008725, AP000116, AL121655, AC005015, AC006271, AC004098, AL031681, Z86090, AC004970, AF024533, AL008718, AC005154, AC006139, AC008372, AC006126, AC007243, AC004686, AC003086, AC006365, Z93017, AL022326, AC007160, AL031666, AC004690, AC007685, AL049766, AC005207, AL246003, AC004525, AC004881, AL050318, AC006459, Z82248, AC002070, AC003065, Z93930, AC005902, AF121781, AC005829, AC005067, AP000354, AC007151, Z98200, AC002546, AC006449, AC006960, AC000417, AL021284, AL022163, AC005815, U52112, AL049709, AC004814, AC005776, AC004477, AL024594, AC005701, AL049539, and AP000502 |
| HDTI90  | 2018 | 787413 | 1 - 490 | 15 - 504   |
| HDTI034 | 2019 | 790851 | 1 - 417 | 15 - 431   |
| HDTI437 | 2020 | 935643 | 1 - 536 | 15 - 550   |
| HDTI143 | 2021 | 926052 | 1 - 439 | 15 - 453   |
| HDTI88  | 2022 | 931122 | 1 - 680 | 15 - 694   |
| HDTI422 | 2023 | 883109 | 1 - 398 | 15 - 412   |
| HDTI437 | 2024 | 799867 | 1 - 590 | 15 - 604   |
| HDTI462 | 2025 | 799835 | 1 - 639 | 15 - 653   |
| HDTI003 | 2026 | 922928 | 1 - 471 | 15 - 485   |
| HDTI557 | 2027 | 799838 | 1 - 596 | 15 - 610   |
|         |      |        |         | AA437170   |
|         |      |        |         | AL742572, AL109310, AL373601, AH58037, AL178168, AW243260, AW182412, AL628730, H96226, AA911198, AW237157, AA621899, AL963732, AA036662, AL099482, AA935821, and AL560638  |
|         |      |        |         | AL110718, and AC006121   |
|         |      |        |         | AA290838   |
|         |      |        |         | AC003992   |
|         |      |        |         | AL669431, AA705801, and AF112999   |

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|---------|------|--------|---------|----------|---|
| HDITV24 | 2028 | 790854 | I - 391 | 15 - 405 | AW392670, Z99396, ALI19457, ALI19484, ALI134002, ALI19391, ALI19363, AW372827, ALI19443, ALI19443, AW363220, AW384394, ALI421332, ALI19319, ALI19341, AW46551, ALI19324, AW4636, AW6350, AW6347, AW6349, ALI19335, ALI19355, ALI19444, ALI19496, ALI19483, AW46345, ALI19396, ALI19418, ALI19399, AW037205, ALI19522, ALI19401, ALI19458, AW46345, ALI19396, ALI134538, AW042965, AW042540, AL042614, ALI134525, ALI134536, AW042970, AW042975, AW042984, AW042544, AL043029, AW043019, AW042542, AW042551, AL043003, ALI19404, AW026436, AW054110, AW066494, AW1671, AW060234, and AW069079.   |
| HDITV26 | 2029 | 790855 | I - 409 | 15 - 423 | AA281844, AW286460, AA862227, ALI133164, AW281465, AW471481, ALI291124, AW283832, ALI291268, AW41548, AW066409, AW266133, F36273, AA340747, AW298710, AW157005, ALI1341604, AW289067, AW193432, ALI431303, AA491814, AW1688846, AW439538, AA0992126, AW136443, AA113986, AA582554, AW028510, AW276827, AW193265, AW1536625, AW339568, AW066134, ALI043043, AW701471, AW419262, ALI150211, AW276435, AW166815, AA084187, AA284184, AW587583, AW587565, AW63720, AW865262, AW546538, AW613280, AW041706, AW274072, AW610159, AW079910, AW004591, AW008317, ALI334443, AW1569088, AW193609, AW015971, AW053672, AW1358501, AW4719805, AW198376, AW4649642, AW057199, AW1830390, AW150132, AA350839, AW375710, AW1814735, AW037830, AW79308, AW143242, AW1348484, AA347927, AW653886, AA669840, AA657835, AW019997, AW166611, AW1832865, AW246996, AW600050, AW188976, AW049634, AW079365, AW276817, AW977743, AW246796, AW033578, AW193007, AW131457, AW137100, AW021917, AW285696, AA347930, AW410400, AW134695, AW502013, AW406447, AW190958, AA557686, AA713815, AW507772, AW884487, AW552326, AW589230, AW653515, AW341903, AW0880858, AW676218, AW042753, AW179719, AA593471, AW121777, AW265385, AW048925, AW005334, AW004796, AW006125, AW157444, AW005916, AW005696, AW1133245, AW005332, AW033663, AW049766, AW005913, AW132777, AW004987, AW005740, AW109907, AW022163, AW002402, AW004963, AW005699, AW00557, AW000092, AW005412, AW031667, AW006312, AW021267, AW005699, AW004534, AW008718, AW005180, AW010054, AW000353, AW007842, AW033376, AW021808, Z93930, AW001086, AW005725, AW049836, AW005598, AW0034684, AW004638, AW035420, AW005598, AW004675, AW035072, AW009059, Z95152, AW006126, AW005670, AW008249, AW004825, AW088219, AW00591, AW005736, AW006480, AW87914, AW52112, AW023494, AW044998, AW99716, AW005006, AW005323, AW005531, AW004386, AW016831, AW005519, Z97184, AW050332, Z93017, Z98950, AW007793, AW006251, AW007637, AW005253, AW007151, AW002398, AW000216, AW005387, AW079340, AW005553, AW0066950, AW078476, AW004876, AW003846, AW001053, AW004929, Z93241, AW0066211, AW0034858, AW008056, AW007191, AW005154, AW000692, AW004945, AW000047, AW007227, AW003119, AW132994, AW047825, AW006999, AW002307, AW005574, AW005071, AW004895, AW049830, AW009227, AW005089, AW000115, AW031432, AW012085, |
| HDITV41 | 2030 | 790853 | I - 641 | 15 - 655 |   |

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| AA736584, AW075941, AL0013986, AW075748, AA480329, AA749202, AA804593, AL1214324, AA079245, AA005861, AA806181, AR125149, AH79015, AT766668, AL112426, AL1334900, AL134929, AL025058, AL134885, AL179810, AL107204, AL1309438, AL140732, AL149156, AL134899, AL271248, AL1307713, AL124312, AL107488, AL1223564, AL053668, AL1223777, AL140417, AL149701, AL1309296, AL026593, AL040620, AL0696583, AL039086, AL174093, AA640841, AL250646, F37409, AL633061, AL1500658, AL918434, AA168725, AL160654, AL638489, AH21149, AW020619, AL1249375, AT702527, AL866573, AW080157, AL706730, AL819377, AL121662, AW020381, AL638582, AC004687, AL133607, U10080, L40386, AF067737, L42402, U76419, AL050393, AF107018, AF004162, AF013249, U10080, AF105427, AF074604, AL117590, S69510, Z82922, A41575, AL137463, X98066, A83556, I29004, X66417, X60769, AL133608, Z49258, AF084644, AF084645, U80742, AL133049, AF112208, AR012379, AL133557, AF199509, AF13998, AF126372, AC005156, AL080124, and AF038847.  |
| AW117866, and AA279193.  |
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| HDTJ155 | 2038 | 856558 | 1 - 574  | 15 - 522  | AL123328, AF161674, AL028395, AA883324, AL094492, AW340221, AL082842, AF139107, AL130596, and AL129506  |
| HDTJ831 | 2039 | 851897 | 1 - 574  | 15 - 588  | AA631510, AA847102, AA370673, AA484892, N76216, T48723, F27015, AL683552, AL624551, AL044271, AF121178, AA538366, AH46205, AW270768, AV008074, AB14059, AF1291037, AA603400, AA297195, AA968509, AW277174, AB36439, AA502110, F32248, AL062808, AL045298, AA535494, AA493840, H72688, AL245423, AA503144, N25079, AF090688, AB090102, AA833814, AW189550, AB89580, H85059, H71642, AL075876, C13996, AL469577, AC005529, AC007314, AC007676, AC004882, AC004882, AC002115, Z97055, AC008071, AC002465, AL078638, AC002302, AC006398, AC005332, AC006139, AC005690, AC005235, AC008012, AC004874, U91323, AL034423, AC007529, AC004862, AC002480, AC005235, Z83822, AL035361, AC004381, AC005183, U91319, AC003957, AP001282, AP000514, AC006064, AP000466, AP000108, AP000040, AC007425, AC000026, AC004616, AB020865, AC007450, AC005041, AF049895, AC002059, Z97876, AL033376, AC005018, AL034379, AL035089, AC004887, AL009181, AC005598, AC003976, AC006547, AC005049, U95740, AC004834, AL008718, AL008729, AC007011, Z84480, AL021707, AC004033, AL031728, AC002288, AC005011, AC005046, AP001054, Z99774, AC005409, AC006213, AC000072, AF001548, AC005104, AC000120, AC005243, AL122020, AC004551, L77569, AC004865, AL121653, AC005104, AL020995, AL034555, AL133445, AL132987, Z85999, AC004098, AC005004, AF001552, AC004808, AC002496, AC004096, AB001523, AC006359, AF003572, AP000301, AP000212, AP000134, AL117375, U89335, AL020989, AC009464, AF020588, AC005393, AL022162, AC007860, AC006013, AC004895, AC002563, AC006544, AL035633, AC009263, AC004073, AC006947, AC004594, AC004542, AL021395, Z98200, AC007637, AF099810, AC005881, AC004216, AL021940, AC004542, AL021395, Z98200, AC007637, AF099810, AC003682, AC004694, AL031643, AL023328, Z84466, AC009225, AF000011, AP000153, U52111, AL031904, AC006096, AP000088, AC004745, AC005971, AP000011, AP000153, U52111, AL009179, Z81365, AC009743, AL031673, AC009247, AF019664, AC005086, AF000031, U91318, AL021877, AC005548, AF004799, AC003106, AC004876, AL040778, AF047825, AL034343, K03021, Z85989, AF045430, and AP000152 |
| HDTJ018 | 2040 | 805597 | 1 - 508  | 15 - 522  | AC001096  |
| HDTJ170 | 2041 | 918563 | 1 - 1094 | 15 - 1108 | AA399660, and AA397890  |
| HDTJ706 | 2042 | 934242 | 1 - 412  | 15 - 426  |   |
| HDTK788 | 2043 | 799865 | 1 - 566  | 15 - 580  |   |
| HDTK014 | 2044 | 886936 | 1 - 541  | 15 - 555  | AL023653, and AL0404683   |
| HDTK528 | 2045 | 885471 | 1 - 512  | 15 - 526  | W07055, N98814, R19346, AA461032, Z20457, W03772, W77921, AF155739, and AL050171  |
| HDTK106 | 2046 | 934269 | 1 - 722  | 15 - 736  |   |
| HDTK589 | 2047 | 799829 | 1 - 690  | 15 - 704  | AL037304, AL184565, and AC004492  |
| HDTKZ74 | 2048 | 799842 | 1 - 626  | 15 - 640  | AC006378  |



|         |      |        |         |          |   |
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| HDTLA08 | 2049 | 958307 | 1 - 480 | 15 - 494 | AL299823, AA918074, AA134073, AA484892, AA578492, W60522, AA526413, AII50934, H86399, AL049539, AF129756, AC005800, AC004929, AL080243, AC007688, AC002316, AC003353, AC005095, AC005971, AC006006, AC004216, AC002369, AC004491, AL020997, AF053356, AL096712, AC007685, AC005231, AL109938, AL132712, Z98946, AC007386, U196629, AL139054, AC005082, AL049569, AC004832, AC005529, AL024498, AC031591, AC001198, AL022320, AC006312, AC007684, AL035455, AL050308, Z84487, Y14768, Z97053, AC004858, AP000505, AC007057, AL049872, AC005207, Z93241, AC004882, Y14768, Z97053, AC002395, AC002310, AC005899, AC005004, AF109907, AP000555, Z80897, AC002477, AL031207, AL109653, AL022396, AC005933, AC004025, AC004685, AC005332, AC005496, AL035494, AL033392, AC007283, AC007425, AF067844, AF009007, AP000555, Z80897, AC002477, AC007536, Z82208, AC002985, AC020663, AL049712, AF134726, AC008067, AC002301, AL109627, AC003665, AL133216, AL132777, AL049760, AL021937, AC004531, AC007160, AC002347, AL009181, AC004448, AC004655, AF064861, AL031733, AC005566, AL109628, AC005694, 1107000, AL034553, AC005837, AC002312, AC007707, AC005015, X03120, AL035681, Z82730, AC004429, AC004854, AF196779, AC005690, AC005924, AC006333, AC002126, AL021391, AC005740, Z98745, AC007324, AL031005, AL035587, AC002425, AF165926, AC007488, X01392, AL117258, AL031277, AC005261, AF045555, AC004036, AC005527, AC005224, AC005225, Z54246, AC007690, A1010770, AC015853, AL136295, Z93023, AF111169, AC004013, AC006079, AC005041, AL031282, AC007014, AL049795, AC005678, 100498, AC002565, AC006211, AL121578, AF047825, AC005736, AL022324, AC006449, AL049589, AL135744, AF000350, AL031311, AL049869, AC002363, AC005049, AC005846, AC006576, AC006064, AL031657, AF207550, AP000557, AC005632, AC000379, AC006236, AL121603, AC004659, AL031283, AC004149, AC007226, U89337, AC006459, AP000358, AC004099, AP000251, AL000091, AC006251, AL096763, AC006538, Z97055, AC005081, AL049830, AF196969, AC005668, AC007240, AL035664, AC005821, AC005914, and AP000141. |
|         |      |        |         |          | R54209, H040999, AA179219, M62122, AA141551, W24376, and AA376209   |
|         |      |        |         |          | W27300.   |
|         |      |        |         |          |   |
|         |      |        |         |          |   |
| HDTLA53 | 2050 | 851826 | 1 - 635 | 15 - 649 | AL349849, AI590485, AI345695, AI345366, AI108573, AW168420, AA382073, AA605272, AI755214, AI754105, AA805546, AA829044, AA228349, AA953238, AA238200, AL042635, AI754567, AA515905, AA126450, AA748833, AA744018, AA244339, AA410828, AA288334, T11828, AC004832, U91326, U91321, AC004525, AC007708, AC005081, AC005015, AL049832, AC002544, AL022336, AC005089, AC002407, AC003982, AC006236, AC002351, AC007981, AC007324, AC006537, AP000130, AP000208, AC007325, AC005684, AC007879, AL021546, AL049780, AF001552, AL049539, AL121580, AC004858, AC006441, AC004848, AC004929,   |
|         |      |        |         |          |   |
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| HDTLA53 | 2051 | 905872 | 1 - 558 | 15 - 572 |   |
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|         |      |        |         |          |   |
|         |      |        |         |          |   |
| HDTL17  | 2052 | 908601 | 1 - 654 | 15 - 668 |   |
|         |      |        |         |          |   |
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|         |      |        |         |          |   |
| HDTLH19 | 2053 | 959932 | 1 - 279 | 15 - 293 |   |
|         |      |        |         |          |   |
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|         |      |        |         |          |   |
| HDTLK51 | 2054 | 851846 | 1 - 524 | 15 - 538 |   |
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|---------|------|--------|---------|----------|--|
|         |      |        |         |          | AC006261, AC006039, AL035659, AC005874, AF134471, AL109865, AC002402, AL035495, AC000029, AC007327, AL050318, AP000503, Z82190, AL031730, AC004820, AC006023, AC002350, AC008372, AC006948, AL035086, AC004494, AC004149, AL109628, AC008009, AP000550, AL035045, Z92542, Z84466, AF109907, AC007686, AC002302, AC005580, AC000117, AC005410, AL031680, AC005332, AC007899, AC008132, Z97056, AF004382, AC005324, AC006011, AC002477, AC005919, AP000513, AC009263, AC007676, AF000694, AF024533, AP000246, AF047825, AC004813, AC005952, AC002996, AF048729, AC007358, AC006316, UP6629, AC002045, AC007546, AC005538, AC006343, AL031594, AL133448, AL049636, AP000354, AC005841, AC007649, U47924, AF196969, AL034429, AL008715, AL009181, AL049569, AC001203, AC005482, AC005225, AC0068018, AC005011, AC004675, AC004987, AF134726, AL021134, AP000350, AL049830, AC007367, AC007566, AL049869, AC008079, AL021707, AC005358, AL078477, AC002352, AC018633, AC006487, AC004972, Z86064, AC005412, AC004106, AC009248, D87675, Z93023, AC005228, Z95329, AF020997, AC005914, AL049793, AC007114, AL008718, AP000152, AL031313, AL049760, AF088219, AC007564, AC005368, AC003046, AC002511, AC004605, AL022165, AF029308, AC005066, AP004213, AC007055, AC003010, AC002470, AC007488, AL121754, AL001523, AC005050, AC009363, AC005722, AB023048, AC004975, AP000031, AC002565, Z85986, AC004491, AC004801, AL133246, AP00135, and AC009288 |
| HDTLN80 | 2055 | 805562 | 1 - 605 | 15 - 619 | AW372827, AW392670, AL042978, AL119443, AL037205, AW363220, AW384394, U46341, AL119319, AL119497, U46351, AL119324, AL119457, Z99396, U46449, AL119341, AL119484, AL119391, AL042965, AL119496, U46350, U46347, AL119355, AL119363, AL119444, AL142132, AL119483, U46346, AL043205, AL119335, AL134524, AL119439, AL119401, AL134902, AL134528, AL119399, AL039851, AL119522, AL134525, AL119396, U46345, AL042850, AL119464, AL119418, AL134536, AL134538, AL042973, AL043003, AB026436, AR054110, AR066494, AR1671, AR060234, and AR069079   |
| HDTLN72 | 2056 | 799837 | 1 - 343 | 15 - 357 | AP000224, and AP000086   |
| HDTLN74 | 2057 | 799838 | 1 - 615 | 15 - 629 | AL049631   |
| HDTLN75 | 2058 | 950633 | 1 - 494 | 15 - 508 |  |
| HDTLN76 | 2059 | 799847 | 1 - 457 | 15 - 471 | AF067844, and AF143316   |
| HDTLN77 | 2060 | 920257 | 1 - 300 | 15 - 314 | AC003695, and AC002091   |
| HEIAA38 | 2061 | 907594 | 1 - 332 | 15 - 346 |  |
| HEIAB13 | 2062 | 677400 | 1 - 339 | 15 - 353 |  |
| HEIAB27 | 2063 | 683474 | 1 - 313 | 15 - 327 | R32529, W95563, T85989, AA316471, AA046028, AA152270, T87538, AA150254, H67429, R68856, AW406467, T97847, H95214, H58974, H94342, R98261, T99568, T87539, and AP991836   |
| HEIAB68 | 2064 | 721652 | 1 - 68  | 15 - 82  | AA768235, AA768974, AA767660, and AF033033   |
| HEIAC83 | 2065 | 920022 | 1 - 148 | 15 - 162 | AL890971, AA323085, AA325999, R87547, AA196160, H04821, N83628, AA687084, AA502236,  |

|          |      |        |         |          |  |
|----------|------|--------|---------|----------|--|
|          |      |        |         |          | AA555085, AL134615, AL127133, AW439625, AP962973, AW439820, AL859849, AA683073, AL081241, AL052770, R69109, AA625787, R66922, AA744698, AL702364, AP000555, AL049563, Z86061, AL035417, AC007842, AC005043, AF001552, AC005233, AL109938, AF121782, AL034423, AC005180, AL031407, AC004682, AL031003, AC007052, AL050325, AC004931, AP000151, AL139054, D83253, AF064857, AC004955, AL031430, AP000009, AC005229, AL022328, and AC009396.  |
| HEIA005  | 2066 | 932397 | 1 - 295 | 15 - 309 | AA659298, AL068963, AA308708, AW020449, AL914747, AA325521, AL537814, AL811076, AA658101, AA432879, N55560, AL261932, AL863180, AL044468, AL888705, AL755057, AA767864, AL801031, M85982, AL140609, AW079345, AL580252, AL111171, AL684349, AA668736, AA121818, AA227741, AL434725, AL188963, AA419521, AA406457, R71593, AA278573, AA078248, AL798234, R12683, AL078602, AC001556, AP000499, AC003665, AB026898, AL031428, AF008243, AC005083, AC005015, AC004167, AC008015, AP000160, AP000018, AC003950, AC004104, AC004787, Z54246, Z95331, AF001549, AL139054, AC005581, AL049745, AC001228, AP000555, AC007242, AC006990, AL133241, Z93244, AC002430, AP000553, AC005089, AL020997, AC007384, Z49862, AC007666, AC007277, AC000052, AC004019, AL132777, AL050317, AL022316, AC005513, AC005545, AL008716, AL024509, U82828, AC004876, AC004032, AC004143, AL031779, AC005409, AC008372, AC007011, Z68162, AC003966, AC004738, AC005670, AC004106, AC004967, AC004590, AP000556, AP000557, AB017335, AC004914, AC002301, AC004878, AL031277, AC018633, AC005781, Z84466, AC005666, AL031680, AL049636, AC000353, AC006111, L34079, AC000404, AC004084, AP000167, AP000013, AP000155, AL050318, AC005837, AL023807, AC005562, AC008116, AL06216, AC005257, AP000171, AP000056, AP000124, AC004865, AP000330, AC004638, AC005325, AC007773, U91321, AC004752, AC005049, AC006344, Z98941, AC004884, AL035413, AL109865, AF024533, AC002511, AC002996, AC005088, AC004985, AL002025, AC007376, AL011930, AC006241, Z93784, AC003077, AP000067, AC005211, AL009181, AC005482, AC005391, AC004777, AC005796, AF051976, AL117375, AL050327, AC004453, AC009320, AL008639, Z85987, AC007558, AL049709, AC005086, AP000432, AC0066531, AC007546, AL049553, AC0066536, AC004841, AL080317, AC007390, AC005914, AL031848, AC020663, and AF001551. |
| HEIAH70  | 2070 | 757174 | 1 - 330 | 15 - 344 |  |
| HEIAI 53 | 2071 | 466308 | 1 - 420 | 15 - 434 |  |
| HEIA001  | 2072 | 916438 | 1 - 290 | 15 - 304 | AC006241, LId7924, AL035400, and Z97053.   |
| HEIA014  | 2073 | 851197 | 1 - 398 | 15 - 412 | AL445914, H81732, AL096738, AA330155, AP063183, AL813783, AL1358542, AA501781, AA746939, AL180617, AW008161, AA337000, AA654874, AL038842, AA776651, AA745096,   |

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| AI92L348, AI683311, T899153, AW023515, AI145497, AI694097, H73550, AI041458, AI624241, AI459943, AP001653, AC007382, AC006455, AC004817, AC005746, U07562, U83195, AC025063, AP000658, AC005578, AC004167, AI078595, U91629, AC003037, AC0010170, AI021263, Z86064, AC005355, AP000330, AC004620, Z69721, AC004854, AI031666, AC005391, AC005379, AI049692, AI035604, Z92845, AC003470, AC003108, AI109758, AI049874, AC005088, Z54146, AC02395, AC007199, AC005529, AC005412, AC006125, AC0047308, AC005896, AC007110, AC004560, AC004887, AI034417, AP000699, AI022153, AI023913, AC004644, AC005913, U65896, AC0051420, AC007151, AC004813, AC005393, AC004139, AI021154, AC003963, Z83845, AI096701, AC004132, AC005049, Z93017, AC006611, AC004492, AC003026, Z98050, AP000288, Z93023, AF102137, AF060568, Y10129, Z92344, AF030453, AC007002, ALI33245, AI049811, AC004067, AF196779, AC006057, AC005037, AC005162, AI054555, AC006262, AI031866, AI031664, AI031286, AI021707, AC004125, AC006538, AI0313111, U91321, AC005832, AC000039, AC002117, AC021002, AI096801, AC003109, AI135746, Z97055, AC005383, AC000283, AC007388, AC005387, AP000284, AC005070, AI031432, AC008033, AC008015 | AI92L348, AI683311, T899153, AW023515, AI145497, AI694097, H73550, AI041458, AI624241, AI459943, AP001653, AC007382, AC006455, AC004817, AC005746, U07562, U83195, AC025063, AP000658, AC005578, AC004167, AI078595, U91629, AC003037, AC0010170, AI021263, Z86064, AC005355, AP000330, AC004620, Z69721, AC004854, AI031666, AC005391, AC005379, AI049692, AI035604, Z92845, AC003470, AC003108, AI109758, AI049874, AC005088, Z54146, AC02395, AC007199, AC005529, AC005412, AC006125, AC0047308, AC005896, AC007110, AC004560, AC004887, AI034417, AP000699, AI022153, AI023913, AC004644, AC005913, U65896, AC0051420, AC007151, AC004813, AC005393, AC004139, AI021154, AC003963, Z83845, AI096701, AC004132, AC005049, Z93017, AC006611, AC004492, AC003026, Z98050, AP000288, Z93023, AF102137, AF060568, Y10129, Z92344, AF030453, AC007002, ALI33245, AI049811, AC004067, AF196779, AC006057, AC005037, AC005162, AI054555, AC006262, AI031866, AI031664, AI031286, AI021707, AC004125, AC006538, AI0313111, U91321, AC005832, AC000039, AC002117, AC021002, AI096801, AC003109, AI135746, Z97055, AC005383, AC000283, AC007388, AC005387, AP000284, AC005070, AI031432, AC008033, AC008015 | AI92L348, AI683311, T899153, AW023515, AI145497, AI694097, H73550, AI041458, AI624241, AI459943, AP001653, AC007382, AC006455, AC004817, AC005746, U07562, U83195, AC025063, AP000658, AC005578, AC004167, AI078595, U91629, AC003037, AC0010170, AI021263, Z86064, AC005355, AP000330, AC004620, Z69721, AC004854, AI031666, AC005391, AC005379, AI049692, AI035604, Z92845, AC003470, AC003108, AI109758, AI049874, AC005088, Z54146, AC02395, AC007199, AC005529, AC005412, AC006125, AC0047308, AC005896, AC007110, AC004560, AC004887, AI034417, AP000699, AI022153, AI023913, AC004644, AC005913, U65896, AC0051420, AC007151, AC004813, AC005393, AC004139, AI021154, AC003963, Z83845, AI096701, AC004132, AC005049, Z93017, AC006611, AC004492, AC003026, Z98050, AP000288, Z93023, AF102137, AF060568, Y10129, Z92344, AF030453, AC007002, ALI33245, AI049811, AC004067, AF196779, AC006057, AC005037, AC005162, AI054555, AC006262, AI031866, AI031664, AI031286, AI021707, AC004125, AC006538, AI0313111, U91321, AC005832, AC000039, AC002117, AC021002, AI096801, AC003109, AI135746, Z97055, AC005383, AC000283, AC007388, AC005387, AP000284, AC005070, AI031432, AC008033, AC008015 | AI92L348, AI683311, T899153, AW023515, AI145497, AI694097, H73550, AI041458, AI624241, AI459943, AP001653, AC007382, AC006455, AC004817, AC005746, U07562, U83195, AC025063, AP000658, AC005578, AC004167, AI078595, U91629, AC003037, AC0010170, AI021263, Z86064, AC005355, AP000330, AC004620, Z69721, AC004854, AI031666, AC005391, AC005379, AI049692, AI035604, Z92845, AC003470, AC003108, AI109758, AI049874, AC005088, Z54146, AC02395, AC007199, AC005529, AC005412, AC006125, AC0047308, AC005896, AC007110, AC004560, AC004887, AI034417, AP000699, AI022153, AI023913, AC004644, AC005913, U65896, AC0051420, AC007151, AC004813, AC005393, AC004139, AI021154, AC003963, Z83845, AI096701, AC004132, AC005049, Z93017, AC006611, AC004492, AC003026, Z98050, AP000288, Z93023, AF102137, AF060568, Y10129, Z92344, AF030453, AC007002, ALI33245, AI049811, AC004067, AF196779, AC006057, AC005037, AC005162, AI054555, AC006262, AI031866, AI031664, AI031286, AI021707, AC004125, AC006538, AI0313111, U91321, AC005832, AC000039, AC002117, AC021002, AI096801, AC003109, AI135746, Z97055, AC005383, AC000283, AC007388, AC005387, AP000284, AC005070, AI031432, AC008033, AC008015 | AI92L348, AI683311, T899153, AW023515, AI145497, AI694097, H73550, AI041458, AI624241, AI459943, AP001653, AC007382, AC006455, AC004817, AC005746, U07562, U83195, AC025063, AP000658, AC005578, AC004167, AI078595, U91629, AC003037, AC0010170, AI021263, Z86064, AC005355, AP000330, AC004620, Z69721, AC004854, AI031666, AC005391, AC005379, AI049692, AI035604, Z92845, AC003470, AC003108, AI10 |
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| HEOMG32 | 2090 | 699343 | 1 - 410  | 15 - 424  | AC005247   |
| HEOMG48 | 2091 | 963338 | 1 - 470  | 15 - 484  | AW170594, AL62386, AA319071, AP000504, AE129736, and AF109905  |
| HEOMG78 | 2092 | 920911 | 1 - 831  | 15 - 845  | AA206565, R08750, and R71112   |
| HEOMH04 | 2093 | 854342 | 1 - 1294 | 15 - 1308 | AA878325, AL467795, H06058, AL142916, H59844, and R48574   |
| HEOMH31 | 2094 | 951834 | 1 - 589  | 15 - 603  | AB01169  |
| HEOMH77 | 2095 | 721342 | 1 - 401  | 15 - 415  | AA349137   |
| HEOMH89 | 2096 | 787109 | 1 - 358  | 15 - 372  | AT068609, AA350845, AT140661, AW207100, AW382915, R85713, AK80236, H38087, AP94926, AL285352, and AJ245621   |
| HEOMR83 | 2097 | 918374 | 1 - 480  | 15 - 494  | AB029488, and AC002536   |
| HEOML13 | 2098 | 893874 | 1 - 340  | 15 - 354  | AC002425, and AC002544   |
| HEOML73 | 2099 | 724043 | 1 - 405  | 15 - 419  |  |
| HEOMM10 | 2100 | 964736 | 1 - 364  | 15 - 378  |  |
| HEOMN02 | 2101 | 913819 | 1 - 548  | 15 - 562  |  |
| HEOMO37 | 2102 | 855659 | 1 - 412  | 15 - 426  |  |
| HEOMOS7 | 2103 | 795128 | 1 - 472  | 15 - 486  |  |
| HEOMP31 | 2104 | 698087 | 1 - 364  | 15 - 378  | H64717, and H65208   |
| HEOMP73 | 2105 | 750609 | 1 - 407  | 15 - 421  | AL008628   |
| HEOMQ17 | 2106 | 851049 | 1 - 630  | 15 - 644  | AA523718, AA556600, AL042630, H55927, AW117723, AW117704, AL287787, H74201, AA528557, H62615, AP14558, AA206036, AA348884, AH73501, AC006566, AC005837, AC003863, AC007016, AC008372, AC004193, AB023057, AP000520, AC007590, AC007189, AL29321, AL034350, AC002487, AC005648, AC006992, AC004653, AC005838, AC004079, AC005915, AF055066, AF054594, AF035666, AC007652, AP000008, Z79028, AC005823, AC004134, AL049697, AC005821, AC004531, and Z82198  |
| HEOMQ75 | 2107 | 965882 | 1 - 560  | 15 - 574  | AL033522, AL137100, AC003089, AC005899, AC004031, AL080243, AC007688, AC007707, Z82178, AC004686, AC005488, AC022517, AC006581, AL031662, AC005072, AC005529, U91323, AC004963, AL009181, AC002425, AL031659, AC004878, AC005722, AC004531, AC003101, Z84466, AC005015, AC004616, AC004966, AC005800, AF006752, Z84487, AC005996, AC002302, and AC005479   |
| HEOMQ80 | 2108 | 835599 | 1 - 431  | 15 - 445  | AA136577, AB06102, AB06830, AW080440, AW130093, AA120563, AW02817, AW025074, AA101113, AA502991, AW148507, AA630672, AA837087, AW403644, AA127426, AA483108, AA809546, AW177794, AA583872, AW177801, T77680, AB27614, AB11960, AL1583255, AW328000, N23504, AL524360, AW128884, AW128900, AA648337, AA654661, T06017, AA455483, AL537458, H68017, N83299, AA633762, AB027344, AL037052, AA3326139, AA552955, AA402129, H25921, AA331301, AP007530, AB086646, AA487872, AA845659, AA380354, AB656774, AL119600, AA773463, AA847095, AW250026, AA551181, AA029872, |
| HEOMR13 | 2109 | 657317 | 1 - 657  | 15 - 671  |  |

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| HEOMR57 | 2110 | 575739 | 1 - 298 | 15 - 312 | AA092571, AW081303, H82185, AA345064, AA663512, AL046402, AA709429, AL045954, AA070345, AA828637, AA93136, AL638635, N71685, AA847096, AL798493, AA370455, H12383, AA807583, T47084, AW270258, H93097, AW168520, AL009182, AC007461, AC004963, AL034401, AC004655, AC005191, AL031033, AC005602, Z82214, U15177, Z98036, U81031, AC006028, AC002070, AL049778, AL122021, AC007381, AC005796, AC006323, AC009044, AC006057, AL049540, AL165142, Z93241, AL080285, AL121877, AC005237, AL008719, AC006312, AC004497, AC002106, AC004036, AC005207, AC005949, AC006125, AC005626, AC005955, AC004975, AP000096, AL05701, AP000240, AF069291, AF015262, AL229043, Z83844, AC000029, Z83822, AL050336, Z98752, AF200465, AC007057, AL049872, AR036572, U01328, AL021397, AC002073, AC007226, AL015089, AC005730, AP000362, AL031297, AC004000, AL021154, U78810, AL121782, AC005377, AL021546, AC006552, AC005214, AC006365, AL133353, AC005011, AL022721, AC004612, Z69719, AC006774, AL049576, AC004548, AL035460, AL031667, AC004098, AP000967, AL049569, AC003101, AL031186, Z69917, Z82976, AL035681, AF017115, AL033376, AC005245, AC005366, AP000563, AL021330, AC006039, AP000246, AP000211, AP000133, AP000208, AP000130, AL049539, Z86061, AC004525, Z94721, Z84487, AC005726, AC005529, AC004966, Z69925, AC002288, AP007205, AL008637, AL031597, AC002299, M63796, AC005924, AL030995, AL023553, AL078639, AC007227, AC006273, Z81364, AC006958, Z98744, AC005476, AL049861, AF064858, AC006165, AC000070, AF049895, AL033527, U91321, AF002991, AC004152, AC007191, AC003109, AC004532, AL022138, Z98946, AC010170, AC009330, AC005081, AL13111, AL133163, AC006315, AC004531, AC005682, AC004685, U17218, Z81000, AC006930, AC005578, AC005838, AL121591, AC004707, Z97056, AL110502, AC006487, AC004999, AC006013, AC006950, AC005952, AP000255, AP000213, AL096763, AC004070, AP000135, AP000031, U91326, AL022318, AC006313, AB023051, AC004644, AP000251, AP000030, AP000134, AP000212, AC004542, AL132642, M87914, AL008723, AC005500, AC004821, AL031985, AF135025, AF084941, AF052685, and D86992. |
| HEOMR92 | 2111 | 963130 | 1 - 397 | 15 - 411 | AF150377.  |
| HEOMR96 | 2112 | 835652 | 1 - 646 | 15 - 660 |  |
| HEOM308 | 2113 | 959581 | 1 - 193 | 15 - 207 |  |
| HEOM565 | 2114 | 969184 | 1 - 474 | 15 - 488 | AA355836.  |
| HEOM585 | 2115 | 602928 | 1 - 400 | 15 - 414 | AC003695, and AC002091.  |
| HEOM592 | 2116 | 715720 | 1 - 341 | 15 - 355 | AL377718, AA810404, AA810193, AL1919569, and AA732716.   |
| HEOM138 | 2117 | 850980 | 1 - 433 | 15 - 447 | AA281179, and AA809453.  |
| HEOM179 | 2118 | 936687 | 1 - 502 | 15 - 516 | T87253, U17628, and AC002554.  |
| HEOM107 | 2119 | 953475 | 1 - 244 | 15 - 258 | AC012085.  |
| HEOM123 | 2120 | 675971 | 1 - 374 | 15 - 388 | R25873, AA730123, AL192759, AL1982610, AL985694, AW130285, AL022067, and U08185.   |

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| HECOM79  | 2121 | 965900 | 1 - 543 | 15 - 557 |  |
| HECOMV11 | 2122 | 847274 | 1 - 282 | 15 - 296 |  |
|          |      |        |         |          | AL048427, AL119511, AW151974, AL434242, AL538850, AL538885, AL872423, AL600472, AL445620, AW058275, AL866469, AL500714, AL859991, AL866003, AL432644, AL440290, AL537677, AL494201, AL804505, AL500659, AL815239, AL866465, AL815232, AL801325, AL866691, AL500523, AL887775, AL582932, AL923989, AL284517, AL590043, AL500706, AL445237, AL491776, AL926593, AL289792, AL511138, AL889189, AL521560, AL500662, AL285417, AL519800, AW172273, AL582912, AL284509, AL889168, AL440263, AL027213, AL866573, AL631493, AL434256, AL805769, AL888661, AL952433, AL284513, AL888118, AL285439, AL436429, AL889147, AL023736, AL355759, AL815033, AL371228, AL490170, AL440252, AL431307, AL282249, AL440238, AL567971, AL866786, AL610557, AL431316, AL242736, AL539260, AL828574, AL887499, AL597871, AL431238, AW081122, AL702065, AL539707, AL885949, AW089557, AL559957, AL285419, AL521571, AL469773, AL866581, AW074057, AL815150, AL567953, AL446495, AW151979, AL867068, AL225248, AL538271, AW151132, AL098352, AW022636, AL809097, AL225000, AL371229, AL431323, AA477608, AL042365, AW169213, AL538881, AW079432, AL923061, AL687614, AW194509, AL047422, AL539771, AL891102, AL879377, AL047398, AL866458, AL469764, AL371251, AL866510, AL023302, AW081133, AL538764, AL866461, AW151136, AL923046, AL043152, AL554485, AL887785, AW130168, AL043168, AL490859, AL041862, AA651819, AL561170, AL048403, AL690946, AL889191, AL048567, AL042686, AL046356, AL433157, AL610426, AL554821, AL045300, AL589947, AW129310, AL819663, AA729782, AL119457, AL610426, AL554821, AL564459, AL273179, AL934000, AL368816, AL371243, AW058279, AL434240, AL042533, AL702406, AL039390, AW080700, AA641818, AL671642, AL860865, AA878808, AL961589, AA738104, AL582910, AL87587, AL798359, AL500063, AW079158, AL556470, AL493559, AL042655, AA939199, AL355008, AL521566, AL499104, AL274759, AL046990, AL493089, AL042416, AL539863, AL366900, AL433976, AL045466, AL042488, AL924051, AL043089, AW161202, AL049550, AL366910, AL469516, AW071349, AL349245, AL561177, AW020419, AW082113, AL040459, AL047611, AL040207, AL582926, AL049851, AL491904, AL040844, AL043321, AL365256, AL565932, AW080565, AA070889, AA575874, AL499463, AA648480, AL045626, AW191003, AL355126, AL373787, AL564500, AL045166, AW197139, AL554981, AL273175, AL521389, AL310500, AL537273, AL537191, AW151970, AL371265, AL450436, AL046681, AL039287, AW004595, AL887765, AL963846, AL049856, AC015853, AF055917, AK034821, AL080129, AF100781, AL050092, AS8524, AS8523, U30290, ET2580, AL122049, AL117460, AL45787, AL33049, AL33084, AL133070, ET1259, AK011880, AL48978, AL133053, AL137558, AL049423, AF118090, AL133015, AL133608, AL110159, AL137656, AL035458, U09434, X67813, M79462, D44497, AL049314, AL122101, AL096720, A08910, AL050824, A08909, AF084644, AF114168, Y11254, U77594, AL122100, A08908, U68387, |

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|         |      |        |         | AF008439, Y11587, AF068466, AF067728, E13998, E06743, Y10655, AL117438, X95876, ZS2022, AL049452, X72889, X82434, AB022159, AL137463, AL133629, AR038854, 199592, D00174, Z37987, AL050138, Y000993, AL133665, S77771, AF113694, I46765, AF138393, L13297, A08912, I89947, AF002985, AF161699, I48979, AF026008, AF137367, U15846, AF043642, AC004213, AL049465, U92992, AF113677, L19437, L10353, AF007996, I17767, E15324, X54907, AF038440, AL117435, AL133072, AF077349, AR020905, A0001838, X70685, X72624, M40514, M85165, AL133607, A91350, AF017152, AL10221, AL050108, AF061981, AL080126, AL049466, X98834, L24896, X72387, S61953, S75907, AL137429, U13676, AF118558, I09499, U57352, AR005011, Y14634, AL137480, I03321, AF162270, AC007114, X81464, AF113690, X76228, I28326, AF118064, X87582, Z72491, AL137648, AF000301, AL133010, AL137548, AF151109, Z97214, AF081195, Z82206, X56530, E03348, Y10823, AL137640, AL137523, U58996, AL137529, AL133508, AL080148, AF106862, U72620, E12747, AF074604, AF215669, AL137560, AL122111, L30117, AF026124, AL050116, U66274, A12297, AL137292, AF000145, AL137287, Z49258, AF095901, Z93784, A32826, A30330, A32827, A30331, AL080060, Y11435, AF012536, AF076464, AF017437, AF119336, Y10936, AF081366, AF093119, AF069506, A44314, AL049464, S69185, AL133655, AL117585, A07647, X93405, AF08357, X53587, A08913, AL008706, I00714, A70386, U75932, AF078844, S63521, AF118994, AL133558, A41579, X60796, AL137478, A77033, A77035, A08916, AF07993, AL137271, AR012379, AL133016, E00617, E00717, E00778, AF016271, AF119358, AL137521, AF040720, A012755, AL137479, AF081197, AL137476, AL122123, AL021213, AL15345, AF067790, AL122110, AL137283, AL080159, I33392, and AL133081. |
| HEOMV16 | 2123 | 958211 | 1 - 452 | FI1697, AA194124, AC005999, AC006547, AC005663, AC005664, and AC005160  |
| HEOMV54 | 2124 | 866386 | 1 - 518 | AL181924, AL139693, AA658096, AW340876, AW196652, AW388936, AW117675, and AL146863.   |
| HEOMV81 | 2125 | 915093 | 1 - 491 | Z85996.   |
| HEOMW26 | 2126 | 418125 | 1 - 386 |   |
| HEOMW83 | 2127 | 659608 | 1 - 341 |   |
| HEOMX04 | 2128 | 615337 | 1 - 287 |   |
|         |      |        |         | AL1399389, N49368, AL433008, AL344822, AL611016, AA618452, AL271126, AL137998, E69717, AL744826, AW269117, AW385452, AP63720, AW303002, AA018283, AA490183, AA780468, AA349927, AL039958, T41247, AA661921, AL1307486, W74144, AL345157, A700109, AA483929, AL138455, AL249573, AL732151, AA279421, AW264934, AL694130, AA724922, AL74070, AL041619, AL046409, AW069769, AA486131, AL754336, AA533333, AL1306324, F00107, AF0780515, AW003107, AL138396, AL925579, AA482711, AL610603, AL696962, AL169580, W77787, W23692, AA838190, AW088846, AA654781, AA480792, AL791913, F05324, AL792133, AL821714, AA206721, AA493136, AL610840, AA553406, AA218835, AA72424, AW190615, AA478355, AL013303, AL099588, AA493894, AA774059, AL193931, AL004704, AA834707, AL720117, AW088616, AA630672, AL045808, AL046156, AW023990, AW268757,   |



AA613591, AI088768, AI285753, AW268918, AW301500, AS584195, AI043753, AI312955, AS601253, AI597820, AI953275, AW163293, AI271028, AS579179, AI792261, AI204959, AW328688, AA493970, AI524037, AI037850, W458625, AS302903, AS572798, AI907711, AW275510, AI217937, AI033025, AI119713, AI471887, AI945670, AA384649, AI384649, H71429, AW290624, AW167881, AF034184, AA455670, AI823688, AI027459, T06822, H12362, AW148507, AI011462, AI048294, AI583283, AW161792, AA831267, AA831787, AA084337, H86363, AA640410, AA640430, AI037683, AW161978, AS584201, AI0104030, AI031373, AI383561, AA101689, AS584805, AI284640, AI094787, AW102846, AI345827, AI370074, AI755253, AI043289, T92944, W225497, AW263415, AI167356, AS5908359, AI687343, AI027554, AI045813, AI044940, AI398817, AI046746, AI046266, AI924872, AW268954, AI203433, AI004814, AI109758, AI007227, AF199339, AI006972, AF084195, Z99943, AI004881, AI006442, AI004687, AF005363, AF000507, AI004028, AI109984, D8494, Z98051, AI009179, AI006101, AF165176, AI005684, AI031848, AI007151, AI002507, AI004650, AI006252, Z72001, AI005839, AI0040916, AI078463, AI004765, AI004070, X06123, X61109, AI006537, I180017, AI005057, I180017, AI005914, AI031228, AI049829, AI008838, AI109839, AI004979, AF165175, AI007200, AI004987, AI079340, AI004982, AI006305, AI009223, AI109657, AI005291, AI078389, X69951, AI000204, AI000126, Z95324, AI004254, AI049761, AI004070, AI096862, AI004849, AI002300, I901318, AI133345, AI006430, Z95114, AI005046, AF015151, AF141309, AI004030, AI005217, AI0066323, AI005049, AI006965, AF126403, AI004492, AI004249, AI0063590, AF057280, I03818, X55929, AI0014078, AI000244, D87008, AI004761, AI0055525, AI005790, AI005203, AI005604, AI007229, AI004209, D88268, AI006139, AI005335, AI023579, AI004756, AI004775, AI022477, AI005031, AI049562, AI117342, AI002348, AI000503, AF000514, AI035694, AI021267, AI049544, AI031293, AI021155, AI002347, AI006205, AI004941, I91319, AI005378, AI007057, AI049832, AI007655, AI022323, AI006459, AI006411, AI007537, AI007363, AI005859, AF02223, AI036572, I91328, AI004049, X54180, AF030880, Z83836, X03272, AI005575, Z84485, AI005337, AI0052467, AI000158, AI005231, AI031274, AI004601, AI024997, AI031664, AI006075, AI005906, AI004470, AI005406, AF000014, AF038667, AI021397, AI000339, AI004935, AI000217, AI031286, AI004022, AI003075, AI005029, AI004861, AI003074, Z93931, AI022316, AI007395, AI007011, AI018359, AI049872, X55933, Z92845, AI035361, AI022302, AI005182, AI033533, AI004913, AI033451, AI003982, AI006251, AI0030957, AI005177, AI078603, AI006989, AI006226, AI008126, AI002437, AI006241, Z98941, I959590, AI003030, AB026584, U63630, AI005603, AI004322, AI031300, AI001084, AI035634, AI003691, AI000282, AI007336, AI012599, AF000108, AF000400, AI034373, AI000159, AI004857, AF000165, AI000462, AI007104, AI005389, AI004773, AF000548,

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| HEOMX61 | 2179 | 958233 | 1 - 535 | 15 - 549 | AC007237, AC001231, AC005968, AL109753, AL031311, AL035552, AC004057, AP000473, AL034549, AL009172, AL117258, AC0069743, AP000555, AB017654, AC006376, AC002449, AC005920, AC007637, AC006377, AC007514, AC005084, AC006160, AC005939, AC005815, AL133163, AC007919, AC006552, AC009399, AC004531, AC007073, AC009891, and AC005701.   |
| HEOMX65 | 2130 | 575019 | 1 - 451 | 15 - 465 | Z98579.  |
| HEOMX92 | 2131 | 919200 | 1 - 422 | 15 - 436 | N64579, T66032, AA196156, T47172, AA305334, AL124664, A537310, AA401240, AA761876, AA769559, AA404287, A925653, AA314294, AA381238, AA312605, AA032022, AA031911, AA425438, AA468322, F00487, AA420494, AA324750, U95740, AC004770, AL0409759, AL033524, AC006237, F00487, AL035458, AF086934, AC005572, AC005772, AL109623, AC006211, AC004938, AP000354, AC006996, AC002492, AP000964, Z98946, AL110122, AC002091, AC004084, AL022165, AL008582, AL023581, AC004888, AC006511, AC006057, AC006512, AL049829, Z47066, and AC007381.   |
| HEONC06 | 2132 | 855649 | 1 - 643 | 15 - 657 |  |
| HEOND75 | 2133 | 918209 | 1 - 314 | 15 - 328 |  |
| HEON179 | 2134 | 506226 | 1 - 333 | 15 - 347 |  |
| HEONK15 | 2135 | 660365 | 1 - 430 | 15 - 444 | H06248, H13011, M89651, and AF004222.  |
| HEONM30 | 2136 | 692726 | 1 - 311 | 15 - 325 | AC007032.  |
| HEONM69 | 2137 | 855638 | 1 - 507 | 15 - 521 | AC000393, and AF081946.  |
| HEONN28 | 2138 | 745144 | 1 - 454 | 15 - 468 | AL041375, A053477, AW274078, AH11513, AL376239, AW089016, AA225890, AA503298, AA664604, AW162047, AW162303, AA557945, AL014843, AA947375, AW270258, AW078909, AW191403, AW302315, AA609834, AA947265, AW141955, AW089950, AA657374, AL439910, AA478602, AW190484, AL865196, AA489390, AL243793, AA669234, AL610737, AL019187, AW243793, AA483606, AL572680, AL371208, AA299589, AL292317, AL565126, AA405726, AA570740, AA652834, AA492105, AA805848, T74524, AA287570, AH73671, AA720732, AW068908, AW068907, AA255853, AA568204, AB64738, AA469230, AA487475, AA608520, AL099889, AL049869, AC002316, M87914, AC007371, AC004491, AC004084, U47924, AC005089, AC006597, AC002996, AC006509, AP000689, AC007536, AC007637, S42653, Z86090, AL080243, AC005632, AL049776, AF196969, AC006948, AC004890, AP000704, AL096791, AL031848, AL049636, AL022326, AC007358, AP006688, AC005037, AC002543, AL031005, AC003098, AL035587, AF047825, AL096712, AL133396, AC004455, AL121653, AC002038, AC000087, AC005696, AP000092, AL049830, AL031776, AC004498, L24093, AC004796, AL023322, AC005837, AL049570, AC005800, AC009510, U07550, AL096701, AC005913, AL117258, AF05588, AL035403, AF001549, D87675, AP000252, AP000065, AP000556, AL034418, AL035088, AC001663, Z83844, AC006064, AC002312, AL023807, AL049692, AL133500, AC005081, AC003363, Z96200, AC006511, AP000154, AP000122. |

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| HEONQ81 | 2139 | 792074 | 1 - 283 | 15 - 297 | AC000353, AF048729, AC004887, AL009182, AE000658, AL121603, AP000090, AC005914, AC005871, AC005900, Z95152, AC002544, AC006312, AL031311, Z49866, AP000692, AC006211, AC004492, AC005736, AC002546, AC004859, AC005924, AL117337, AC005209, AL035685, AC004973, AC004953, Z69705, AL080317, AC002350, U85195, AL031985, AL034555, AC004024, AC007546, AC005476, AC004253, AP000008, AC006115, AC004815, AC002404, AC007327, AL121934, AL121658, AC004858, AC004754, AC004983, AC004453, AC005049, AC007421, AC004134, AP000553, AC012384, AL031681, AL135744, AC002381, AC005015, AC005568, AL133245, Z78833, AC005669, U91327, AL133246, AL021394, AL050443, AL049709, AC002301, AC000134, AC002365, AL021578, AL049795, D86995, AC005338, AC005409, AC008372, AC002390, AC004686, AC005899, AL049646, AL109952, AL049588, AL132987, AL022731, AC003070, AF027550, AC003104, AC006251, AC007216, AC004821, AC005277, AC006241, AC005274, AP000128, AP000206, AC004797, AC005538, AC006538, Z98884, AC035422, Z83838, AC006011, AC005796, AC006117, AC002310, AC009247, U95742, AC007199, AC004910, AC005808, AC005754, AL035458, AC005746, AC009516, AC002126, AC002091, AC006571, AC005488, AC007151, AC005775, AC007114, AC020663, AC007221, AL031597, AL035414, AC005856, Z99943, AC002551, U91323, AC007382, AC003684, AL049569, AP000355, AC005527, Z69942, AC003109, AP000555, AC005513, AC004841, AC004033, AL022343, AP000696, AC005291, Z97181, Z49258, AC008640, AC004017, AP000114, AP000046, AC005531, AC004466, AC002463, AC006501, Z49154, AC005255, AP000557, Z98050, AC005755, AF134726, AC005412, AC003110, AC004884, AC004659, and Z95115. |
| HEONQ81 | 2139 | 792074 | 1 - 283 | 15 - 297 | AW392300  |
| HEONQ93 | 2140 | 792377 | 1 - 368 | 15 - 382 | AL1378653, and H97239   |
| HEONQ08 | 2141 | 959556 | 1 - 699 | 15 - 713 | AA532915  |
| HEONQ19 | 2142 | 930705 | 1 - 897 | 15 - 911 | AI625739, AW272001, AI435829, AA147072, AI609268, N91272, AA147105, AA834526, W27700, AI126003, AA602530, AA398168, AW294288, AW004619, AI202250, AL119565, AB007884, and AI250425  |
| HEONQ58 | 2143 | 965881 | 1 - 506 | 15 - 520 | AA683299, and AC005075  |
| HEONQ05 | 2144 | 967588 | 1 - 340 | 15 - 354 |   |
| HEONQ69 | 2145 | 556544 | 1 - 355 | 15 - 369 |   |
| HEONQ26 | 2146 | 577429 | 1 - 491 | 15 - 505 | AA845825, AA503018, AI862790, AI240919, AI246061, AI792537, AI270853, AI252826, AI254046, AI251643, AI435754, AW086343, AI224728, AW301997, N29930, AI271005, AI249565, AI254826, AW271081, AI224422, AI251312, AI252060, AW302086, AI254783, AI307025, AI472990, AI254056, AI254683, AI252493, AI252591, AI284764, AI294311, AW086227, AI435696, AI053574, AV167330, AI362942, AI682310, AI884861, AA857812, AA862014, AA340153, AI864500, AA468494, AI255060, AW271137, AI252996, AW302016, AA678616, AA662905, AI883019, AI289050, AA070473, AA728911, AI083495, AI284092,   |

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| AA364150, AI499941, AI185394, AI472782, AI19337, AI361090, AA633565, AA084950, AA935380, T34558, AI119563, AA484892, AH21950, AW026305, AA605090, AI690335, AA486352, AW054936, AA468956, AI249853, AI284543, AI254770, AI798242, AI251944, AI251034, AI251203, AI251284, N76555, AI250552, AI279417, AA665304, AI570895, AW021007, AI049534, AA741301, AI138065, AA579399, AW192518, AW073821, HI9839, AW408767, AW90284, AI347605, AA644223, AA599749, AA381498, AI472736, AW265688, AI155246, AW328370, AA224525, AW405068, H86579, AA678932, H25626, F09355, AW081610, AA345594, N67313, AW342143, AA757426, AA610713, AI803741, H93152, AI889995, AA773881, AI538236, AI126814, AI671077, AI251241, AI678476, N75708, N25079, AA018923, AI063043, AA012829, AA244181, AI223626, AA197019, AA010775, AI591134, AA558366, AW019964, AW079667, AW303098, R35259, AI890753, AI343667, AI309121, W44359, F17537, T08386, AI863246, AA618240, AA678622, AA610255, N704497, AI791718, HI10454, AI860535, AA748071, AI285493, AA916430, AI312090, AI044488, AI312784, AI133906, AI133902, AI866996, AA426451, AI889426, AI520967, AI760700, AA572983, AI376197, AI567941, AA019542, AI679759, AI205783, AI523865, AI114653, AA714955, AA053463, AI889579, AI524957, AA632988, AA295893, AW087226, AA501441, AI559282, AI270442, AA083681, AC006010, AC005274, AC005804, AC007738, Z84466, AC004933, AI034549, U80017, AC005539, AF124730, AI031387, AC004111, AB014077, AC004209, AP000513, AI022578, Z92540, AC009399, AC002432, AF001549, AC004787, AC005031, AI13269, AI049611, AC005886, AI031651, AP000039, AP000099, AC005377, AP000036, AC005096, AC006501, AC004000, AP000046, AP000114, Z73496, Z96074, AF017104, AC002380, AI031177, AC005728, AI049591, AI022162, AC002531, AC002377, AI133246, Z94056, AF095901, AI031589, AI022394, AI024508, AC008499, AC010206, AF067844, AI132987, AC005740, AC006080, Z98946, AI035530, AC002538, AF217403, AI049650, AI022337, AC005071, AC002559, AP000688, AI035696, AC007253, AC005822, AC012340, AI008729, AI078593, AC011625, AI049176, AI035652, AC009330, AI034553, AC001231, AC005969, AI050350, AC005344, AC008119, AP000113, AP000045, AI049779, AC007546, AI035400, AC009542, AC008498, AI078581, AC004811, AC005295, AC006459, AC005323, AC002531, AC006367, AC004808, AC006443, AC007228, AI078584, D87009, AI02474, AC007016, AC002352, AC006552, U91325, AC006600, AC005609, Z99570, AI049569, AC005099, AC007298, AC004694, Z98751, Z68273, AC004552, AC007386, AP000506, AC005058, AC004950, AC004384, AF191071, AI033381, AC004228, AC008928, AI117356, AF123462, AB000852, AC004831, AI109865, AC007240, AC0066013, AC003003, AF003528, AI035089, AC005836, Z97054, AI049760, AC006379, AI022165, AC005725, AC002070, AC006450, AF031076, AC004072, AI133321, AF031075, AI117258, U96629, AF139813, AI135879, AI121790, AF064858, U91321, Z98884, AI031595, AC005304, AC005017, |  |  |  |  |
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| HEONU75 | 2147 | 851054 | 1 - 215 | 15 - 229 | AC003969, AC005293, AF031078, AL031311, AF000330, AL033397, AF030876, AC005831, AC007225, AC006088, AF207530, AL034384, AC005531, AC008040, AC000085, AC007371, AL022318, AC007284, AC003013, AC005229, AF000704, Z84487, AC004973, AC005066, AC002094, AL035005, AC018633, AC003077, Z86090, AL031321, AC004773, AC003035, AL049834, AC005091, AC007248, AC005028, AC009294, AF126403, AC004815, AB003151, AC006059, AC006948, AF000500, AC007637, AC012384, AC004087, AC005971, AL035691, AC006387, AL078638, AC004941, AL031123, AF045555, and AL031678.   |
| HEONV39 | 2148 | 949152 | 1 - 376 | 15 - 390 |   |
| HEONV15 | 2149 | 575812 | 1 - 393 | 15 - 393 |   |
| HEONX19 | 2150 | 668740 | 1 - 363 | 15 - 377 |   |
| HEONX49 | 2151 | 485897 | 1 - 480 | 15 - 494 |   |
| HEO0B36 | 2152 | 830013 | 1 - 363 | 15 - 377 |   |
| HEO0D03 | 2153 | 923505 | 1 - 502 | 15 - 516 | AA282391, AA282047, AA281587, AA748355, AA721283, and Z83847  |
|         |      |        |         |          | AA404360, AW148964, AL290157, AA004125, AI433952, AA569565, T94858, AA601376, AI224583, AA428270, AA255832, AA385570, AW006124, AA831350, AA811673, AI133355, AA927531, AL026896, AA484699, AA018488, AA174108, AH57605, AA669458, AW419201, N76712, AI889236, AA491941, AI254463, N71264, AI252005, AA533977, AW403177, AA493464, AI097211, AI254267, AW088928, AA666172, T73227, AL044758, AA533066, AA225645, AA947997, AA533600, AI869406, AA493546, AA516061, AI572680, AI744890, AA130350, AI926104, AI125192, AL044966, AA109578, T09181, AW179889, R07303, AI271873, AI912307, AI610814, AL079508, AA359725, T07954, AA165504, AA484321, L78833, AC005484, AC006597, AC005182, AC004771, Z95704, AL0449636, AC005099, AL022318, AL109627, AC005137, AC005293, AF000211, AF000133, AC006511, U91321, AC005632, AC004150, AF000213, AF004861, AC006026, AF000135, AC003072, AC004913, AL049869, AC007546, AC000052, AF000031, AL031846, Z84476, AC007030, Z98949, AC002310, AL096701, AF165926, AC006211, AL031282, AF111169, U91327, Z84474, AC004542, AL035696, AC004876, Z86090, Z83844, AC004967, AC002471, AC007421, Z83840, AL035587, AL034343, AC020663, AC003533, AC005209, AC005037, Z93241, AC007666, Z97054, AL109623, AC004983, AC006166, AL031662, AL078639, AC007226, AL031730, AC009516, AC005971, AC008372, AC005291, AC007277, AC007686, AC005014, AC004895, AC007207, AC004019, AC005529, AF207550, AC002376, AC008120, AL109691, AC002351, AC003950, AC005049, AC007055, AC008044, AC005089, AF000354, AL139054, AC003779, AF000692, Z13025, AC004797, AC006162, AC005399, AC007364, AC003982, AC005694, Z93017, AC004882, AB023051, AF000116, AC002350, AL033392, Z98941, AC004084, U91326, AC005358, AC006088, AC007263, AC004765, AL050341, AL035413, AF006689, AC004910, Z95703, AL034402, AL117337, AC005519, AC008134, AC004890, AL078581, AC003006. |

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| HEOP050 | 2154 | 738991 | 1 - 397 | 15 - 411 | AC006960, AF118808, AF196779, AC005618, AP000114, AP000046, Z98051, AC006277, AL008725, Y18000, AC006285, AL113448, AC007204, AC004447, Z82171, AC008067, AC003030, AC003369, AL024509, AL031281, AC007919, AC003969, AL080243, AC004653, AF045555, AC003458, AP000030, Z82206, AC005531, D83253, AP000099, AL035660, AP000008, AP000512, AL034417, Z82190, AC002996, AC005730, AL008582, AC004859, AL031591, AC004878, U91323, AC006449, AL133445, AL121603, Z81369, AC005736, AC006312, AC005625, AC006509, AL121578, AL031432, AL122020, AP000036, AP000253, AL031666, AL049759, AL031427, AC003007, AC005755, AL003147, AC006581, and AC006396. |
| HEOPV40 | 2155 | 710800 | 1 - 357 | 15 - 371 |   |
| HEOP28  | 2156 | 926837 | 1 - 589 | 15 - 603 | AA286964, A1568687, A1680899, AA809497, AA766098, AA287967, AW452688, AA814524, AW130037, and AB028989  |
| HEOP58  | 2157 | 851009 | 1 - 463 | 15 - 477 | AL078634, AP000117, AP000194, AP000313, and AP000050.   |
| HEOP03  | 2158 | 839868 | 1 - 530 | 15 - 544 | AC004954.   |
| HEOP18  | 2159 | 918405 | 1 - 407 | 15 - 421 |   |
| HEOP25  | 2160 | 934171 | 1 - 510 | 15 - 524 |   |
| HEOP33  | 2161 | 969695 | 1 - 406 | 15 - 420 | AA810065, AW205048, and AC003959  |
| HEOP56  | 2162 | 850925 | 1 - 687 | 15 - 701 | U81102, AP000325, AP000054, AP000122, and AP000169.   |
| HEOP301 | 2163 | 915047 | 1 - 476 | 15 - 490 | AL031667.   |
| HEOP69  | 2164 | 883161 | 1 - 580 | 15 - 594 |   |
| HEOP73  | 2165 | 850936 | 1 - 597 | 15 - 611 | AL121760.   |
| HEOP141 | 2166 | 855634 | 1 - 536 | 15 - 550 | N91672, AC008122, AP000558, AC009516, U91318, AB020864, AP000555, AF003626, AP000501, AL049779, AP000553, and AL031984.   |
| HEOPK43 | 2167 | 930442 | 1 - 649 | 15 - 663 |   |
| HEOPK47 | 2168 | 966327 | 1 - 699 | 15 - 713 |   |
| HEOPK52 | 2169 | 883170 | 1 - 475 | 15 - 489 | AC006987.   |
| HEOPK90 | 2170 | 850883 | 1 - 624 | 15 - 638 | AC005913.   |
| HEOPN73 | 2171 | 851002 | 1 - 504 | 15 - 518 |   |
| HEOPN78 | 2172 | 918205 | 1 - 314 | 15 - 328 |   |
| HEOPN95 | 2173 | 973440 | 1 - 732 | 15 - 746 | Z99396, AW392670, AW372827, AW384394, AW363220, AL119355, AL119457, AL119319, AL119483, AL119324, AL119443, U86341, AL119484, AL119391, U86349, AL119522, AL119503, U86350, AL036418, AL038837, U86351, AL119341, AL119335, AL119418, AL037051, AL036725, AA631969, AL119396, AL119496, AL036858, AL037205, U86347, AL119444, AL043029, AL042984, AL119439, AL119401, U86346, AL042614, AL039074, AL036924, AL142132, AL113455, AL134538, AL042544, AL142137, AL042965, AL042975, AL119399, AL113456, U86345, AL043019, AL043039, AL043033.   |

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| HEOP008 | 2174 | 938184 | 1 - 422 | 15 - 436 | AL042551, AL038509, AL119644, AL042450, AL043011, AL042542, AL037094, AL037085, AL037526, AL036196, AL043003, AL036268, AL037639, AL036190, AL037082, AL038520, AL036767, AL037077, AL036774, AL036998, AL038851, AL038447, AL036238, AL036733, AL036719, AL037178, AL037027, AL037615, AL036679, AL036765, AL036191, AR066494, AR060234, AR1671, AR023813, AR064707, AR054110, AR026436, and AR0699079   |
| HEOP030 | 2175 | 850916 | 1 - 418 | 15 - 432 | R03882, R99079, AA846981, N70425, A1271762, AA563770, AC007225, AC004019, AC006121, AC000652, AL031427, AC007279, AP006690, U05740, U71167, U90994, AC0064071, AL040569, Z77852, AP000151, AC005484, AC005014, AC008154, AC005539, AC002565, AC002314, AC003665, U00017, AC004084, AC007993, AC007731, AL008718, AC005500, AC004491, AF001550, AC005081, AC005932, AC000159, AC004851, AF005588, AF196969, AP000513, AC006084, AC005535, AC005844, AL049793, AC004851, AF005588, AF196969, AP000513, AC006084, AL133244, AB023049, AF196970, AC006146, AP000115, AC004820, L78833, AC005295, AC006649, AC004686, AL031846, AF196970, AC005046, Z99716, AC006111, AL031255, AF042484, AC007226, AC006487, AF045555, AC005829, AC004910, Z85996, AC005920, AC003101, AC005921, AC002059, AC005852, AC005412, AP000694, AC005049, AP000689, AL109753, AC005527, AC004900, AC004797, and AC004999   |
| HEOP006 | 2176 | 934147 | 1 - 637 | 15 - 651 | AA631942, AL086196, AC005590, AC004224, AL022330, AL096678, AC004032, AC004645, and AC006237  |
| HEOPW04 | 2177 | 850948 | 1 - 721 | 15 - 735 | AC005189  |
| HEOPW38 | 2178 | 926764 | 1 - 520 | 15 - 534 | AL889579, AL160786, F35684, AL355246, AW010994, AA736485, AA805014, T50676, H69992, AA837771, AA256107, AA077619, H60313, AW020198, AW373604, R67701, T83057, AA668905, AW247338, F19643, T62078, AA600132, AA634242, AA487226, AP15081, AA214457, AA354324, Z92546, AP000353, Z95979, AC004882, AC005529, AP000115, AC002077, AP000086, AC006211, AC006120, AC005018, AL009182, AC005620, AL0090429, AC006084, U62317, AC004820, AC007225, AC006530, AC004701, AC005881, AC004815, AL031595, AL031984, AC005519, AC005094, AC004663, Z82179, AC002988, AC005255, AL121603, AC004859, AL035405, AC005559, U47924, AC005740, AL035086, AC003692, AP000312, AP000193, AP000050, AP000117, AF001549, U52111, AL035703, AC005042, U91321, AL121658, AC004659, AL031587, Z98946, AC007388, AC006111, AC004762, AL049553, AC005031, AC000079, AL109963, AL022398, Z84487, AC000068, AL022334, AL008635, AC005532, AC006011, AC005046, AP000510, AC007057, U62291, AC005057, AF196972, AC005666, AL109827, AC007308, U80017, AC002470, AC005293, AP000688, AB026899, Z93244, AC007425, AC004216, U95743, AC005257, AF047825, AP005488, AC004675, AF207550, U89335, AL049434, Z98051, AP000221, AP000085, AL009795, |
| HEOPW67 | 2179 | 840050 | 1 - 542 | 15 - 556 |   |
| HEOPX85 | 2180 | 855625 | 1 - 200 | 15 - 214 |   |

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| HEOPY05 | 2181 | 918438 | 1 - 494 | 15 - 508 | AL049570, AC002477, AC004655, AL049823, AL031283, AF088219, AF024533, AC005534, AC005514, AC003678, AL031293, AC006346, AC003663, AC003689, AC007993, AC0053071, AC007773, AC005261, AL109798, AC005082, AL049631, AC004042, Z99755, AC005089, AC005495, AC010170, AC006347, AC004217, AL022721, AC002314, AL034553, Z98941, AC005088, AL000092, AP000500, AC004819, Z97630, AC007200, AB020861, AC007435, AL121973, AL109865, L29766, AL049872, AC005624, AF001551, AL008707, AC0005206, AC005667, AL035420, AC005152, AC008101, AC004999, AC006254, AL035422, AL008628, AC005510, AC008079, AL133246, AC005618, AC005696, AE217403, AE037338, AC007292, AP000691, AL049576, AC003665, AC003002, AC002316, AP000113, AP000045, AC004910, AC000599, Z95516, AL031230, Z82214, AC004943, AC005411, AC006581, AC007685, AC007666, AL049539, AC005070, AP000329, AL031781, Z93930, AP000123, AP000170, AP000555, AC000134, AP000501, AL031577, AF053356, AL135744, D91323, AC004703, AC002091, AC005034, AC004000, L78810, AC004049, AL109616, AC004851, Z99916, AL031677, AL031846, AL022326, AC005015, AL034429, AC006449, AL049843, AP000553, AC002350, X06292, AJ13757, AC003004, AC004644, AC005179, AP000255, and AC004752. |
| HEOPZ02 | 2182 | 918407 | 1 - 493 | 15 - 507 | AW92670, AW63220, AL02614, AW37287, AW384194, AL119444, Z99396, AL119443, AL119341, AL119319, AL119457, AL119497, AL119324, AL119483, AL037205, U46351, AL119355, U46349, AL119484, AL119363, AL119391, AL119418, AL119335, U46350, U46347, AL134524, AL134902, AL042978, AL119396, U46346, AL119522, U46341, AL042965, AL042975, AL042984, AL119401, AL134525, AL119496, AL119439, AL142132, AL043019, AL149200, AL119399, AL042433, U46345, AL042896, AL042450, AL043029, AL134536, AL134538, AL047544, AL042970, AL142131, AL042542, AL042551, AL119464, AL043003, AL119488, Z99572, AR066494, A81671, AR060234, AR054110, AB026436, AR069079, and AR043113.  |
| HEOPZ05 | 2183 | 928257 | 1 - 166 | 15 - 180 | AW090604, and L01057.  |
| HEOPZ11 | 2184 | 965970 | 1 - 462 | 15 - 476 |  |
| HEOPZ29 | 2185 | 878503 | 1 - 381 | 15 - 395 | AA347231   |
| HEOOCB3 | 2186 | 909899 | 1 - 658 | 15 - 672 | AA280922, AA090210, AL204291, AW148627, AA709639, and D29642   |
| HEOQC10 | 2187 | 963398 | 1 - 386 | 15 - 400 | AA837771, AA573000, AA768179, AA635433, AA093165, AA669248, D51877, AA385775, AA302660, AW419389, AA515172, AA3527109, AA568314, T07285, A5121042, T17135, AA078137, AL240606, AL078184, AA714073, H85587, AA610374, AA668148, AL244985, AA734968, Ro1195, AA720582, AL743129, AA832124, AA371410, H27788, AW089950, AA662629, R87135, A1572680, AL223968, AA348271, AW105463, AL044793, AW341882, AL653783, A1761566, AA078509, AA658853, W39287, AP000115, AC004859, AL031781, AC005071, AL031133, AC005037, AC005004, AF001549, AC005722, AP000355, AL133445, AL021391, AF047825, AL031985, AC004587, AC005300, AC005193, AP000212, AP000134,   |



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| 7057, AL031663, AL049872, AP000141, AC000353, AP000343, AC007263, 1594, AC000026, AF053356, Z85987, AL035416, AC005632, AP000555, 3476, AL136295, AC005015, AC002470, AF196970, AC005914, AC005881, 1312, AC006480, AC004033, AP000088, AL022721, AC004797, AL121658, 1744, AP000502, AC007731, AC006241, AC003029, AP000044, AP000112, 3500, AC005046, AL049776, AC006257, AL033397, AP000354, Z93017, 5921, AF196971, AC005911, AC006455, AC005519, D87675, AL022322, 895, AB016897, AP000344, AL049869, AC004887, AC006111, AC005520, 5971, AC006441, AC007151, AP000512, Y10196, AC005231, AL022329, 3553, AL022326, AL117328, AL121825, AC004655, AC003973, AL133249, Z85996, 8883, Z99716, AC007226, AC007637, AC005412, AC005480, Z74739, 712, AL031670, AP000359, AL034429, AC003101, AC004000, AC005069, 7308, AC007738, AC005537, AC005924, AL009183, AC004150, AC007262, 3049, AC007021, AC006312, AC005291, AC006946, AL031186, AL022238, 3274, AL109758, L44140, AP000014, AL031584, AC004836, AC002504, 2085, AC005512, AC005746, AC002312, AC005011, AL109952, AF111167, 3575, AL049569, AC005041, AL080243, AL031005, AC002055, AL139054, 4, AP000011, AC007066, AL13826, AC004492, AC006948, AF029308, 4057, AC005821, AL117352, AL035420, AC004796, AC007030, AC002563, 1321, AL109628, AL023581, AC004963, AC004638, AC005536, AC000075, 1054, AC004491, AC005409, AC004383, AC004996, AC007686, AC006116, 1754, AC005102, AC005280, AC002511, AC004477, AC006049, AC004242, 3085, AC004884, AC004682, AC006376, AC006285, AL035458, AC007687, 5599, and AP000240. |
| 1, AA368329, AW019964, AL160786, AW440451, AA582746, AA071045, 1, AL046561, AA937618, AL753536, AW265688, AA584655, AA714073, H65316, AL298079, AA730035, AR60535, AW367942, TS0676, H54252, 12, AA657910, AL198718, H29914, HS3284, AA077637, AA513884, AL041352, 3, F11421, AL246386, AL583978, AL799421, AA365911, AA551110, AW190277, 2414, AA445908, AL929298, AL929825, AA683069, AL130509, F26713, 995, AL671077, AW161016, AW079737, AW272640, AW275432, AW157180, 4011, AL1609972, AL814682, AL291439, F31575, AA676472, AA572987, 7215, AL588272, AA297698, AA297006, AA558404, AL039309, AA378207, 4594, CL4330, AL368732, H73550, AL045476, AA448620, AL432298, R93919, 9227, AA612578, AA745628, AL583291, AA564682, AL122310, AA282951, 94580, AA584800, AA772704, AA093114, AA613761, AL634187, C16358.  |

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| AL019994, H10577, AW148775, AA862029, AA662615, AH57313, AI733717, AA559166, AI271762, AI431513, AI633386, AI249688, AA599423, W81372, AW302670, AW408596, AA460692, T94394, R64640, F04252, AA515351, AA610255, AW028950, F30158, AI453334, AA715962, AA015948, Z98474, T51556, AL037533, AI889579, AI355246, AW020891, AI758799, F31811, AA297496, AA664126, AI190648, H40478, AA358178, AA653173, AI078474, AI109963, AI110122, AL049833, AC008101, AC008079, AP000466, AF1166969, AL109865, AC006084, AC006196, AF111168, AC007201, AL049829, AI004799, AC004820, AC004000, AC002347, AC002385, AC005837, M87912, AC008975, AC004150, AL021453, AL049696, AC005027, AL049776, AC007225, Z68129, AC009499, US2111, AL021453, AC005599, AP000022, AP000163, AC004217, AL023095, AL049563, D86992, D88270, AC004587, AC008062, AC007637, AC016025, AL008635, AB017653, AC005559, AC006581, AC006398, AC003393, AC003109, AC005018, AF019406, AL050341, AI109983, AP000689, AB003151, AC002429, AC007012, AL022334, AC006476, Z84469, AC002477, AP000299, AL035086, AF039907, AC005156, Z83844, AC005411, AL109627, AC006979, Z93244, AC008085, AC004121, AC005871, AL049569, AP000501, AC006430, AC004581, AC005193, AL031680, AC003051, AC003665, AC005859, AI117356, AC005228, AC004551, AC002070, Z49749, AC005566, AL050306, AI246003, AC006511, AC005516, AC002368, AC004913, AL008707, AB004136, AL022328, AL035681, AC005828, AF037338, AP001063, AL022313, AL035088, AI117355, AC005972, AC005747, I34294, M87889, Z82217, AC004257, AC002369, AC005912, AP000692, AC004797, Z82176, AC005702, AC004262, I47234, AC003002, AL022399, AP001053, AC002302, AC006141, AF047825, Z96074, AC004494, AC005225, AC006531, AI022721, AP000065, Z84466, AF027390, AL009183, AC002453, AL034420, AL021920, AL109653, Z85996, AC005539, AC004596, AC002059, AL021546, AC005261, Z49235, AL008637, AL035682, AL049697, AC005034, AC007786, AP000557, AL031848, AP000113, AP000045, AC004611, AC002128, AC006137, AC007279, AC009247, AP000350, AL022333, Z49236, AL022329, AL109977, AC005412, AC007676, AI131341, L31565, AL096818, AF176815, U82668, AL035090, AL035079, AP000031, AC005821, AI133353, AL050320, UI0087, Y12508, AL022333, AC006537, AC002116, AC005783, AC004961, U78027, AL035422, AL031904, AL121603, AL049636, AL035405, AP000503, AC006011, AL035413, AC000075, AC000084, AC002491, AC002056, AL031730, AC002554, AC007537, AL022318, Z85994, AL079340, AC005737, AL049839, AL078603, AB018295, AC007059, AC003963, Z98885, AC005800, AL109839, AB004907, AL034451, AF129756, AC004597, AL031662, AC005015, AL022326, AL079342, AL049743, AC004703, Z77852, AC005297, AL031662, AC003048, Z97876, AL035551, AL049814, AB001523, AC005914, Z84487, AL050325, AC022517, AC004832, AC006928, AC005726, AL021391, AF134726, AC002558, AF030453, Z98752, AC002306, AC004106, AC005256, and AF038458 | 15 - 659 | 1 - 645 | 90903.2 | 2189 | HE00076 |
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|----------------------|--------------|------------------|--------------------|----------------------|---|
| HECOQ004<br>HECOQ77  | 2190<br>2191 | 922876<br>850974 | 1 - 480<br>1 - 403 | 15 - 494<br>15 - 417 | AA381451, AA714278, AA827817, AA483603, A1032875, R44616, AL036300, A1243933, AA135806, AP04051, AL008630, AC002352, AC004893, AC002115, AC002045, AC005089, AC005756, AC005952, AL031273, AL020997, AL031311, AC005067, AP003113, AP00194, AP000050, AL011504, AP001548, AP001117, AC005488, AC004491, AF053356, AC004659, AC004834, AC002364, AL096775, AC000113, AC006551, AC005081, AC005086, AL031686, AC003666, U63313, AC004897, AL117694, AC004382, AC000082, AC004883, AC005792, AL044539, AC004905, AP000032, AC002425, AC005479, AL035968, AC002070, U91323, Z97055, AL033517, AP003529, AC005049, U96629, AC003101, AC000070, AC005620, AC002527, AF196972, AP000355, AC009288, J03764, AP000013, AP000154, AC005015, AC004653, AC002302, AC000091, AC002310, AF030453, AC005088, AC007207, AC004841, AF184614, AC002522, AC004602, AC000095, AC004528, AF024533, AL035073, AC005841, AP000008, AC005800, AL049745, AC002992, AC002312, and AC022517. |
| HECOQ073             | 2192         | 958109           | 1 - 584            | 15 - 598             | R95051, AA491864, AF145457, AC004770, AC004228, AC002470, AC005350, AL031670, AF053356, AC000092, AC005527, Z85986, AC000134, AC005529, AP005555, AP000885, AL034429, AC004530, and AL008709.   |
| HECOQ0380<br>HECOQ81 | 2193<br>2194 | 850071<br>934100 | 1 - 448<br>1 - 597 | 15 - 462<br>15 - 611 | AF068365, AL132777, AL031651, AF111168, AC002115, AC002381, and Z68323.<br>AA708108, AA504896, AA811208, AL590941, AA486226, AC004883, AC005529, AC005015, AC005527, AC002470, AC002375, AC004895, AC005971, AC004598, AL031286, AC007537, AC000025, U82671, AC007216, AF001549, AL009181, AL035458, AC005081, AC002316, AC004974, Z69917, AP000298, AC005690, AC005277, AL078587, AL109627, AC005538, AC004531, AF039007, AL031668, AC000134, AP000701, AL049757, Z82182, AC005574, AC005011, AL049869, AC006017, AP000354, AC003684, AL008718, AC009516, U78027, AP000044, AP000112, AL021368, AL035413, AL031311, AL035422, AL031295, AC005377, AP001428, AC009731, AC004858, and AC007308.  |
| HECOQ111             | 2195         | 965973           | 1 - 587            | 15 - 601             | AA533768, AL820985, AA620562, AL720732, AW004354, AA088727, AW082470, AA984114, AL590906, AW083604, AC006036, AC005548, AC005972, AL031662, AC004185, AP00509, AC004024, AF071704, AF141309, AP000563, AL049845, AP000210, AP00132, AC004522, AF129756, AC008009, AC006211, AC000062, M64231, AP000348, AC006504, AL050343, AC002477, AC004087, Z74739, AL023494, AC007684, AC003043, Y14768, AC004874, AP000505, D84394, AF165926, AC007102, AC008063, AC007639, AC004491, AC004887, AF196972, AC004253, AC005484, AC004787, AC016831, AP000503, AL133312, AF134726, AL035667, and AL121653.   |
| HECOQ111<br>HECOQ870 | 2196<br>2197 | 879559<br>934370 | 1 - 552<br>1 - 601 | 15 - 566<br>15 - 615 | AC002536, and AP009488.<br>AL183451, AL119484, AW192670, AL119439, AL134530, AL134519, AW372827, AL119391, AW363200, AL119319, U66347, AW38494, AL119457, Z99396, AL119324, AL119522, AL119363, AL119355, AL119497, AL134528, U46351, AL119341, U46350, AL119396,   |

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| HE00K72 | 2198 | 847285 | 1 - 147 | 15 - 161 | <p> AL119483, AL119443, U66349, AL119444, AL134525, AL134526, AL134527, AL134531, AL134536, AL134538, U66341, AL037205, AL134902, AL134518, AL119496, AL119335, AL119401, AL119418, AL042544, U66346, AL412137, AL142137, AL119399, U46345, AL043019, AL031666, AR066494, AR060234, A81671, AR069079, AR026436, AR054110, and AR043113<br/> AL045891, AL150012, AL134524, AL040889, AL045327, AL043321, AL042488, AL042655, AL046356, AL432644, AL047163, AL431107, AL047611, AL042898, AL042515, AL045328, AL041862, AL042508, AL431316, AL432666, AL042853, AL042729, AL042931, AL040207, AL042787, AL043091, AL043529, AL431238, AL047675, AL042533, AL042533, AL060786, U46344, AL060946, AW151136, AL539771, AL537677, AL049201, AL500659, AR066405, AL815232, AL801325, AL500523, AL538850, AL887775, AL582932, AL025989, AL284517, AL872423, AL590043, AL648567, AL500706, AL445237, AL491776, AW151138, AL521560, AL89189, AL500662, AL582912, AL284509, AW177223, AL539800, AL440263, AL889168, AL538885, AL866573, AL633493, AL434256, AL866469, AL805769, AL434242, AL888661, AL284513, AL500714, AL888118, AL285439, AL436429, AL859991, AL889147, AL1355779, AL023736, AL1371228, AL581033, AL440252, AL491710, AL610557, AL860003, AL242736, AL828574, AL887499, AL539781, AL402065, AL702065, AL885949, AL042420, AW089557, AL559957, AL521571, AL042802, AL460775, AL866581, AL815150, AL567953, AL464695, AL431157, AL047092, AL909077, AL561170, AL927233, AL432656, AL043166, AW151979, AL042745, AL285419, AL554821, AL042741, AL432653, AL431323, AL431321, AL131315, AL1371251, AL039390, AL866510, AW081103, AL289791, AL866461, AL923046, AL690948, AL045626, AL047037, AL042523, AL521596, AL440238, AL046681, AL046681, AL699581, AL079977, AL366900, AL866820, AW197139, AL023061, AL275175, AL045500, AL042551, AL582926, AW058275, AL499463, AL610362, AL119748, AL434222, AL440239, AL042744, AL274759, AL537273, AL436456, AL371265, AL963846, AL567940, AL610357, AL817244, AL612913, AL285826, AL63014, AL555765, AL521594, AL499512, AL433976, AL042365, AL889133, AL538881, AL048403, AL288281, AL039276, AL282268, AW087954, AL135017, AL434255, AL047422, AL043278, AL434223, AL285432, AL697243, AL671642, AL610429, AL628850, AL431968, AL476086, AL337187, AL431355, AL042944, AL045163, AL539632, AL889148, AW118257, AL439995, AL539847, AL521465, AL828583, AL042538, AL872300, AL554827, AL863357, AW172745, AL534998, AL863197, AL567944, AL042865, AL567935, AL805762, AL610426, AL043295, AL867008, AW080700, AL046990, AL355008, AL432446, AL271234, AL042572, AL610402, AL567971, AL042377, AL042557, AL538878, AL888665, AL432654, AL366910, AL049859, AL432650, AL866457, AL499555, AL042842, AL567954, AL537191, AL866491, AL654276, AL567993, AL499915, AL499508, AL817373, AL872315, AL048390, AL273179, AL284515, AL031667, AL133053, AL122101, AL133049, AL133074, AL133076, Y10655, AL137287, AL122049, AS5203, AR034821, Y17793, AF113694, AL049423. </p> |
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| HEOQJ483 | 2199 | 850964 | 1 - 588 | 15 - 602 | AL133655, U02900, EI3998, AL050280, AL049464, M30514, L31396, U68387, L31397, AL133084, AL133070, AL110159, S61953, AL133082, AL050146, AL122093, AL133072, AL122110, AL133080, AL133081, AL133077, AF081195, E07361, AF002985, U88996, AL133607, AL133604, AL133015, AL133608, AF161699, AR055519, Y07915, U80604, AL049300, and AR066494   |
| HEOQJ483 | 2199 | 850964 | 1 - 588 | 15 - 602 | AA341080, AW240930, AW392934, AA773513, AA176554, W03722, AL1597867, AC00252, Y17169, and AL136773   |
| HEOQJ483 | 2200 | 934202 | 1 - 759 | 15 - 773 | AA774831   |
| HEOQJ483 | 2201 | 864110 | 1 - 211 | 15 - 225 | AA680243, AL732120, AA433558, AW406162, AA938105, AA679936, T40452, AA601908, AA806796, AA205915, AA774222, AL121235, AA347241, AL046457, D82290, AA496508, D82542, AA836811, AL048125, AL110760, AP24251, AA524821, AA309841, AL079869, AA533303, R70821, AL799545, N23649, T74382, AL093030, AL133297, AA508359, AA483223, AL038990, AW075511, H71429, AA722372, AL816537, AA747777, AW245747, AA846952, T07249, AL036037, AW438555, AL284640, AA587604, AA605272, AW248847, AA502104, AL754955, AA580808, AL270117, AW023990, AA584167, N27329, AA702729, AA632868, AA496260, AA652037, AA324849, AA837655, AL274692, AA613232, AW303196, AW274349, AL038705, AA224525, AA214342, AW301350, AA992351, AL583283, AL334443, AW419262, AL370074, AA503015, AL041706, AL431303, AW193265, AL046205, AL041690, AL350211, AW072923, AA584581, AL197740, AW302013, AL631119, AA178953, AA810269, AL744826, AA634889, AA613227, AA632612, AA727072, AW128900, AW128884, AW088224, AL046409, AL370094, AL364020, C06151, AA613203, AL364026, AA658362, AA834713, AL218881, AA614070, AA828712, AA568341, AW301302, AL572924, AW088058, AW021583, AA526787, R95139, AA018412, AL049400, AL699938, AA493621, AA508862, AL819574, AA847499, AL473475, AA478355, AW438643, AW276435, AL432270, AL919265, AA834755, AA490183, AW022406, AA513136, AL537506, AL053672, AW274346, AW245325, AA493136, AA847952, AA515440, AW270382, AL049604, AA804962, AW410400, AA367986, AA483771, AA636954, AA366312, AL196919, AW021207, T11247, AP001038, U07562, AC002301, AC004690, Z98036, AF109907, AF196779, AL023494, AC005324, AL049776, AC009516, AC007686, AL035587, AL031846, AC004858, AC005406, AF088219, AC007298, AL022476, AC004834, AC005274, D87675, AC006359, AP000352, AL050321, AL034420, AC005231, AC008072, AC005274, AL096769, AP000088, AC004675, AP000240, Z86090, AC004517, AL035681, Z98884, AP000553, AL008718, AC002365, AC003085, AC005275, AL117258, AC000358, AC006285, AC007136, AL022329, U96629, AC007051, AC000353, AC000965, AC004671, AC005763, AC006486, Z92845, AC008372, AL020995, AC007955, AC002418, AC007688, AC004848, AC004386, AL031584, AC007283, AL049829, AL049832, AC004019, AC003035, AC002119, AC007041, AC005907, AL122020, AL034548, AC006275, AL121603, AC000052, AC009069, |
| HEOQJ483 | 2200 | 934202 | 1 - 759 | 15 - 773 |  |
| HEOQJ483 | 2201 | 864110 | 1 - 211 | 15 - 225 |  |
| HEOQJ483 | 2202 | 850957 | 1 - 454 | 15 - 468 |  |

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|---------|------|---------|----------|-----------|--|
| HEO0P44 | 2203 | 942,596 | 1 - 1810 | 15 - 1824 | <p>AL035072, U07000, AP000090, AC005778, Z85987, AC005531, AC005529, U91326, AC0006312, AL096775, AF165926, AC006213, AC005259, AC005558, AC005740, AP000354, AC010200, AL022302, AL109618, AC005257, AL021154, AL035458, AP000513, AL049869, AC005994, AF227510, AC006241, AC005839, AL133382, AP000017, AC005913, AC005787, Z84488, AP000459, AL135744, AL033525, AC005291, AC004381, AC004150, Z69696, AC007666, AC004638, Z92542, AL033525, AC005291, AC004381, AC004150, Z69696, AC007666, AC006111, AC006548, AL121591, AL022163, AC005332, AC007537, AC005914, AP000692, Z84721, AL031447, AC005694, AC004815, AL034549, AL023384, AP000044, AP001112, AC006195, AC004975, AL009758, AC005242, AC005696, AL004616, AL008583, AC005900, AL035450, AP000065, AL034371, AC004016, AC005081, AC005527, AC006207, AC006210, AC005399, AC004626, AC002395, AL139054, AC007066, AL031719, AC006017, AC006210, AC006511, AL050308, AP000961, AC004827, AC004987, AC007387, AF064861, AL021940, AL022240, AC002991, AL109941, Y10196, AL080243, AC002429, AC002312, AC018633, AC005924, AC007227, AL133485, AP005552, AC007226, AC007314, AL132994, Z82208, AC00379, AC006251, AL118497, Z98745, AC004033, AC004686, AL049569, AC009247, AC005331, Z97053, AC004079, AC006374, Z49237, AC003950, AC007214, AC005019, AC005519, Z83844, AL133448, AC005747, U78027, AL096712, AB020858, AC007652, AL049653, AL049843, AC012627, AC010072, U85195, AC003108, AC004544, AC006211, AF027550, AL023575, AC003665, AP000517, AC005501, AC007245, AL132992, AL021878, AC006115, AC004821, U63630, AL009179, AC003899, AL031685, AL024507, AC005089, AC005821, AC004099, AC005225, AC000003, AL033460, AC004593, Z98051, Z97054, AC003065, AC005565, AC005785, and AC005180</p> <p>AL042026, AL040542, AL042640, AL042540, AL046135, AL041808, AL044178, AL044364, AL043613, AL044413, AL043840, AL042334, AL043585, AL044583, AL044354, AL041936, AL039459, AL039576, AL040947, AL046244, AL043201, AL043604, AL039472, AL046383, AL043218, AL039689, AL040045, AL044350, AL039550, AL043425, AL042346, AL043424, D11960, AL045991, AL079876, AW450335, AL044377, AL042700, AL043468, AW297822, AL043795, AL546832, AL043128, AL040029, AL042245, AL044771, AL042712, AL036650, AL043867, AL040007, AL036630, N84802, T23658, AL035924, AL040697, AL040414, AL044412, AL040571, AL046994, AR035193, AL13393, A49045, A85522, A38523, A58524, A38525, A64973, A82653, A83151, A83642, A83643, A84772, A84773, A84774, A84775, A84776, A86792, A93963, A93964, A95052, AR017907, AR027100, AR067731, AR066732, E12615, E16636, E28266, I44516, AL17115, A18079, A27396, A98767, AR028504, I63120, AO2710, AO2712, AO7700, A13392, A22413, A23509, AG0955, A68104, A68112, A76773, A91750, A93016, AR009151, AR009152, AR037157, AG054109, E14304, E16678, I19516, I21869, AR068550, AR068551, AO2228, A13388, A18050, A18053, A23334, A23633, A23998, A24782, A24783, A38214, A44171, A48774, A48775, A49700, A58521, A58698, A60111,</p> |
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|          |      |        |          |           | U46349, AL039504, AL039085, AL039156, AL039108, AL039109, AL039128, AL119418, AL037619, U46347, AL134528, AL037094, AL037085, AL119444, AL042965, AL039659, AL036208, AL036196, AL036190, AL042614, AL134533, AL134538, AL042975, AL037205, AL119439, AL037526, AL038531, AL134902, AL119399, AL036767, AL042132, U46345, AL134518, AL134524, AL037082, AL134531, AL042450, AL042984, AL042551, AL039682, AL039648, AL038530, AL045337, AL036238, AL042970, AL119488, AL042909, AL037077, AL038447, AL039678, AL039629, AL039386, AL042544, AL043019, AL043029, AL042542, AL039423, AL036998, AL037615, AL038851, AL043003, AL036719, AL036733, AL037027, AL037178, AL119404, AL036774, AL037021, AL039410, AL036679, AL036765, AL036886, AL036191, AL066494, AR060234, AS16171, AR023813, AR064707, AR069079, AR054110, and AB026436.   |
| HEOOW56  | 2207 | 883227 | 1 - 212  | 15 - 226  | AW 3403464, and AF127389.  |
| HEOOW81  | 2208 | 887147 | 1 - 1046 | 15 - 1060 |  |
| HEOORC12 | 2209 | 969585 | 1 - 432  | 15 - 446  |  |
| HEOORC48 | 2210 | 922885 | 1 - 800  | 15 - 814  |  |
| HEORE11  | 2211 | 965904 | 1 - 746  | 15 - 760  |  |
|          |      |        |          |           | T91937, T99157, T96469, AW082364, AL268419, AL1690257, and AB007861.   |
|          |      |        |          |           | R93208, Z99396, AW992670, AL036418, AL038837, AW372827, AW384394, AL037051, AL036725, AL119497, AL119319, AW363220, AL119457, AA631969, AL119324, AL119483, AL119484, AL119391, AL119443, U46350, AL119522, AL119363, AL038509, U46351, AL036858, U46341, AL119355, AL039074, AL119418, U46349, AL119341, AL119335, AL036924, AL119496, AL119396, U46347, AL119399, AL119444, AL037205, AL119439, AL042965, AL037639, AL134531, AL039564, AL134538, AL039085, AL037094, AL119401, AL039156, AL037082, AL039108, U46346, AL039109, AL037526, AL039128, AL036196, AL134533, AL134536, AL042614, AL043029, AL042975, AL042544, AL042984, AL037615, AL036767, AL134532, AL038447, U46345, AL037085, AL036190, AL042542, AL043019, AL037077, AL042551, AL038851, AL038531, AL043011, AL036268, AL042450, AL038520, AL043003, AL036998, AL036238, AL036733, AL037178, AL119464, AL036774, AL037021, AL036836, AL037027, AL036765, AL036719, AL036191, AL036679, AL036158, AL036886, AR066494, AR060234, AS16171, AR023813, AR064707, AB026436, AR069079, and AR054110. |
| HEORE22  | 2212 | 969579 | 1 - 704  | 15 - 718  |  |
| HEORE27  | 2213 | 850902 | 1 - 636  | 15 - 650  |  |
| HEORE79  | 2214 | 959572 | 1 - 315  | 15 - 329  |  |
| HEORE12  | 2215 | 969580 | 1 - 530  | 15 - 544  | Z99396, AW 392670, AW372827, AW384394, U46349, AL119483, AL119497, AW363220, AL119319, AL119355, AL119457, AL119434, U46341, AL119484, AL119463, AL119391, AL036418, AL038837, AL119341, U46350, AL119522, U46351, AL037051, AL036725, AA631969, AL119335, AL119396, AL042975, AL119496, AL036858, AL119418, U46347, AL119399, AL119444, AL134538, AL037205, AL039074, AL119439, U46340.   |



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| HEOR120 | 2216 | 934067 | 1 - 417 | 15 - 431 | AL036024, AL042984, AL134902, AL038509, AL134920, AL042614, AL042965, AL043011, AL043029, AL042973, AL134527, AL134536, AL134531, AL134533, U46345, AL142134, AL037094, AL042551, AL037526, AL037085, AL036196, AL037082, AL042544, AL043019, AL043033, AL037639, AL134526, AL042450, AL042542, AL142139, AL037077, AL036774, AL036190, AL043003, AL036268, AL119464, AL038520, AL038851, AL038447, AL036774, AR060234, AL81671, AR066494, AR023813, and AR064707 |
| HEOR120 | 2216 | 934067 | 1 - 417 | 15 - 431 | AA460896, AA210943, H10636, W72442, AT99645, N27422, AA834765, AC007014, U63630, Z99774, AL031276, AL031584, AC002565, AC006449, AL023807, AL035413, AC007685, AL079342, AL031291, AL049539, AP004044, AC005045, AC005488, AC004674, AC002470, AL022721, AC007436, and AC000078   |
| HEOR190 | 2217 | 918166 | 1 - 250 | 15 - 264 |   |
| HEORR01 | 2218 | 914988 | 1 - 202 | 15 - 216 |   |
| HEORM10 | 2219 | 963194 | 1 - 411 | 15 - 425 |   |
| HEORM21 | 2220 | 839142 | 1 - 422 | 15 - 436 |   |
| HEORR01 | 2221 | 915015 | 1 - 648 | 15 - 662 |   |

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| HEORU06 | 2222 | 934097 | 1 - 494 | 15 - 508 | AL0409830, AC006130, AC005839, AC005295, AF205588, AL031650, AC005231, AC005593, AL020997, AC007227, AC005175, AC008041, AL049757, AL096701, AC002310, AL049776, AC004797, AC006237, AC004167, U85195, AC005104, AF001549, AC005004, AC004671, AC006057, AC008134, AL022318, AL096791, AL031289, Z84469, AC005682, AC005379, AC005252, AC005919, AC005323, AC004185, AP001152, AC006088, AC004030, AD000812, AC005619, AL008710, AE000658, AC005081, AC007371, AL031662, AC005822, AC005829, AL022323, AC005250, AP000088, AC005291, AC006441, AC005220, AC002126, AF045555, AP000553, Z92542, AC004231, AC002544, AC006132, AF134726, AC0033043, AC004041, AC004883, AC004882, AL049761, AC005921, AC004859, AL022320, AC004517, AC002306, AL049712, Z82215, AP000019, AC008055, AC005523, AL008726, AC005288, U52112, AF042089, AC006249, Z94056, AL034549, U96629, AC005523, AL008726, AC004031, AL033527, Z93244, AC004024, AF195658, AL049653, AC005048, AC002347, AC004031, AL033527, Z93244, AC004024, AF195658, AF11169, AC000471, AP000962, AC003037, AL022315, AC005305, AC004975, AC006236, Z98048, AC002350, AL139054, AL096703, AC007011, AL121652, AC005516, AC005324, AC007114, AP000275, and AC006075. |
| HEORU06 |      |        |         | 15 - 508 | AA282451, AL137996, Z99396, AW392670, AW384394, AW372827, AL119457, AL119396, AL119324, AL119341, AL036924, AL037094, AL037077, AL036196, AL037082, AL036767, AL036733, AL036191, AC004798, A81671, AR060234, and AR060494.  |
| HEOSI66 | 2223 | 850917 | 1 - 523 | 15 - 537 |  |
| HEOSI50 | 2224 | 922825 | 1 - 199 | 15 - 213 |  |
| HEOSL01 | 2225 | 914874 | 1 - 537 | 15 - 551 |  |
| HEOSL08 | 2226 | 850951 | 1 - 971 | 15 - 985 | R93538.  |
| HEOSL54 | 2227 | 926849 | 1 - 639 | 15 - 653 | AC007444.  |
| HEOSN60 | 2228 | 841869 | 1 - 665 | 15 - 679 | AC005393, and AC006133.  |
| HEOS001 | 2229 | 855651 | 1 - 432 | 15 - 446 | AC003663.  |
| HEOSI05 | 2230 | 928270 | 1 - 680 | 15 - 694 | AL134528, AL134518, AL119336, AW372827, AL119439, U46341, AL119319, AL134524, AL119496, AL02965, AL119484, AL042970, AL134902, AL119443, AL134920, AL134533, U46346, AL134538, AL119391, AL119444, AL042850, AL119396, AL119320, AL119304, A81671, and AR069079.   |
| HEOSI06 | 2231 | 933991 | 1 - 536 | 15 - 550 | AA278249, AA482174, AA282390, AA488762, AA489734, AW392670, U46349, AL119319, AW372827, AW363220, AW384394, Z99396, AL119483, AL119355, AL119363, AL119457, AL119324, AL119443, U46351, AL119484, AL119391, AL119341, AL119444, AL119497, U46346, U46350, U46341, U46347, AL119522, AL119335, AL119396, AL119439, AL037205, AL134518, AL042975, AL042984, AL134902, AL119418, U46345, AL102137, AL134538, AL119496, AL042614, AL119399, AL042965, AL119432, AL134527, AL134536, AL134528, AL134524, AL043029, AL142134, AL042544, AL043011, AL043019, AL043033, AL042550, AL042542, AL043003, AL119464, AL042551, AR060234, A81671, AR060494, AR054110, AB072636, and  |

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| HEOSR54 | 2232 | 855615 | 1-434 | 15-448 | AR0609079.   |
| HEOSR54 | 2233 | 926483 | 1-457 | 15-471 | W65492, AC005393, AC006133, and AC005515.  |
| HEOST23 | 2234 | 965916 | 1-753 | 15-767 | W03011   |
| HFSA03  | 2235 | 850146 | 1-552 | 15-566 | AA341979, and T92688.  |
| HFSA043 | 2236 | 715700 | 1-162 | 15-176 | AA342419.  |
| HFSAQ59 | 2237 | 572813 | 1-423 | 15-437 | AA342556, and AC005158.  |
| HFSAV59 | 2238 | 675922 | 1-264 | 15-278 | AW020037, A1658843, AA342731, AA828039, A1400553, and A1010597.  |
| HFSAV51 | 2239 | 572815 | 1-399 | 15-413 | AA342635, and R37508.  |
| HFSEB09 | 2240 | 573315 | 1-403 | 15-417 | AA343192.  |
| HFSDG31 | 2241 | 504368 | 1-306 | 15-320 | AA343240, AA343241, and AC007688.  |
| HHEAA27 | 2242 | 575258 | 1-489 | 15-503 | A1537538, Z63822, AC006285, and AC016025.  |
| HHEAM44 | 2243 | 726856 | 1-596 | 15-610 | AA489589, AB025537, and A1031128.  |
| HHEAW46 | 2244 | 718120 | 1-572 | 15-586 | AW262813, AW411169, R68959, and A1380261.  |
| HHEBS24 | 2245 | 858417 | 1-306 | 15-320 |  |
| HHECK11 | 2246 | 924982 | 1-223 | 15-237 |  |
| HHECK33 | 2247 | 871375 | 1-232 | 15-246 | 131887, and 131888.  |
| HHECN01 | 2248 | 916178 | 1-429 | 15-443 | AA586433, H81732, A1049701, H71738, AA878407, A1884861, A1002762, A021139, AA320105, AA515979, A1564301, A1699049, F07564, R93854, AA074351, AA598608, AA87812, A1004740, AA721198, A1255004, A1255015, F75640, AA814719, AA151808, A1143653, A1042869, A1063043, A4736713, A1808574, A1251576, A1106232, AA326904, AA729373, A1583466, F16409, A1279417, AA468923, A1869786, AA326452, AA354504, AA846923, A1805261, A1238969, AW274191, A1246192, AA809125, AA811954, A1733647, A1904944, A1914713, A1880889, A1733662, A1590404, AA324088, AA484892, A218631, A181823, A1865980, AA313133, AA326330, AA507526, A1282479, AA484892, A1904884, A1567391, AA584484, AW238712, A1289396, T49933, AA595656, AA492105, A1983047, N20173, AA374797, A1479968, F35097, W44359, AA720582, AW328331, AA503298, A1921491, AA405726, AA558404, AW166920, A1610737, AW128881, AA652059, AF003626, AF124730, AC002554, AC007193, AC006008, AC004973, AC005998, AC006530, AC005625, AF124730, AF165926, AP000066, AP000280, AC003964, Z95703, AC005697, AF024534, AF000039, AP00107, A1110502, Z73963, Z93023, Z98950, A1133494, AP000224, AC007055, AC005088, AP000113, AF053356, AC005003, Z84477, AC005412, A1049780, AC004236, AC009275, A1031277, AC006137, AC005237, A1133163, AC007680, AC007247, A1048256, AC009275, AP000314, AC004948, AP000194, A1331666, A1050308, AC007429, A1078581, AP00017, A132987, AC004782, AC005193, AC006130, Z82189, AC006538, AC004814, AP000153, AP000011, AC004020, AC002039, AC005839, A1049869, AB026899, A1031885, AC007536, |

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|  |  |          | H63677, and U7209997.   |
|  |  |          | AF093241, T07205, AC000413, AF039691, AF132608, AF207748, and AF006602.   |
|  |  |          | AP1913928, AA480258, and AA491192.  |
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|  |  |          | AW079676, and AL291307.   |
|  |  |          | AA356150  |
|  |  |          | AL024096, AL040576, AL040768, AL038532, AL046850, AL044201, AL044258, AL041577, AL043570, AL041459, AL043848, AL043814, AL038983, AL0439316, AL043923, AL044064, AL042135, AL043845, AL040052, AL041374, AL0406392, AL041627, AL041523, AL041730, AL040148, AL040082, AL042472, AL040329, AL040290, AL040263, AL041187, AL040199, AL040458, AL045900, AL041635, and AL04074, AL038838, AL045920, AL041602, AL043492, AL044165, AL043775, AL041752, AL040839, AL046442, AL043677, AL040745, AL043664, AL040617, AL040332, AL040255, AL040285, AL040342, AL040091, AL040128, AL040168, AL040037, AL044186, AL043467, AL040510, AL040625, AL045817, AL0401142, AL041238, AL0407183, AL040332, AL0406330, AL041051, AL041292, AL040119, AL047036, AL040710, AL047057, AL047219, AL039915, AL037435, AL043612, AL041197, AL043537, AL041186, AL044274, AL045753, AL040253, AL041131, AL039360, AL037727, AL040459, AL045857, AL041227, AL049018, AL045725, AL040553, AL036822, AL037436, AL041159,   |
|  |  | 1 - 375  | 15 - 389  |
|  |  | 781893   |   |
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|  |  | 15 - 325 |   |
|  |  | 915285   |   |
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|  |  | 973110   |   |
|  |  | 1 - 430  |   |
|  |  | 15 - 531 |   |
|  |  | 858407   |   |
|  |  | 1 - 517  |   |
|  |  | 15 - 161 |   |
|  |  | 1 - 147  |   |
|  |  | 15 - 537 |   |
|  |  | 915913   |   |
|  |  | 1 - 523  |   |

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| HHEDJ631 | 2256 | 697806 | 1 - 589 | 15 - 603 | 166482, 166485, AR027319, A47368, 107249, 166483, 166484, A91752, E03813, 166498, 166497, 166496, A91751, 166487, 166486, 119516, A06419, A21892, 119517, AR027318, 108776, AR008429, A23997, AR83151, A68114, A95096, A63954, Y09813, A95106, A95105, AR027099, A63067, A51047, A63064, A21895, AR035975, AR035974, AR035977, AR035976, AR035978, A05160, AR08030, A23052, AR003585, 163560, 163561, 163563, 125041, A76773, A22413, A1230935, 156772, 195540, A63072, A89633, A89634, A58521, AR021969, AR051652, AR051651, and X07299   |
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| HHEDH57  | 2257 | 665762 | 1 - 655 | 15 - 669 | W19045, N57242, N41553, and AC000119   |
| HHEDJ94  | 2258 | 906876 | 1 - 509 | 15 - 523 | R80434, AA331428, Z82215, and Z95114   |
| HHEDM03  | 2259 | 923908 | 1 - 448 | 15 - 462 | AA553409, A1762528, A167656, F16848, AA593168, A1925065, A1823705, H12857, A1824476, A16440368, N41775, F10650, W45416, AA93636, A1025930, W02497, AA828592, AW088631, AC005015, AC004859, AC004000, AC006271, A1133551, AC005288, AL008719, AP000552, A2027550, AC005940, AC005911, AC004821, A1031848, Z81364, AC004087, AC0029456, A1022163, A1035071, AC004686, AC005695, AC000025, AC005330, AC002565, AP000167, AP000536, AC003963, A1035089, AC005859, AP000502, AC005041, A1031230, A135187, AC005696, A1049569, AC008372, A1047825, A134726, A8023059, AC007878, AC005612, AC005519, E78810, A1049869, AC002544, A1049694, A1035086, U80017, AC005484, AC006449, U73169, A1035387, A1050307, AC002347, A1049839, A1031311, AC002316, A1049780, A111167, A109952, Z93241, AC007226, AC004832, AC002350, A1050318, AC005203, AC006960, AP000122, AP000509, Z97056, AC007934, AC0010170, AC005531, A1034420, AC006111, U95742, A1031685, Z99716, Z8823, A1022316, AC005089, A1022326, AP000159, AC003025, AC002425, AC005362, AC007551, AC000159, Z85987, AC006285, A121578, AC004583, A1022345, AC006538, Z95152, AC007216, AC012627, Z83822, A139813, AP000326, A109798, AC005846, A1079340, AC005716, AC007897, U91321, AC007160, AC004999, AP000113, AP000045, AC007041, AP000169, AP000054, Z84484, A1023803, A1023553, A1049776, AP000300, AC004228, A1023807, AC005180, AC004520, AC005913, AC007536, AC005367, AC005527, AC0006121, AC005399, A1036405, AC005839, AC005529, AC007055, A1009181, and A1035422 |
|          |      |        |         |          | A1279905, A1859460, and AA353599   |
| HHEDN93  | 2260 | 731067 | 1 - 360 | 15 - 374 | AA975530, A1376755, AA931603, AA830053, AA912944, AA926705, A1445635, and AA954467   |
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| HHEDJ074 | 2262 | 463250 | 1 - 432 | 15 - 446 |  |
| HHEDP88  | 2263 | 878759 | 1 - 371 | 15 - 385 | AA297299, A1900951, AA412438, A1A150262, AA937163, AA257561, N132544, A1126496, AA872939, and R61273   |

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| HHEDR27 | 2264 | 791847 | 1 - 563 | 15 - 577 | U63127  |
| HHEDW03 | 2265 | 923340 | 1 - 421 | 15 - 435 | AL132712  |
| HHEDW58 | 2266 | 735609 | 1 - 509 | 15 - 523 | AW271777, AA418212, AW026172, AW080197, AW150080, Z99393, AW296033, A1738581, AA452203, AA418081, AA028164, AA035728, AW138718, AW027368, A1861850, A1493006, A198725, AA845357, AA521417, AA394270, AW003395, A196190, AA476994, A1815175, AA621790, AA292791, A1917710, A1580942, A1831206, A1422238, A1337202, A1084220, A158685, A1769662, A1363146, A195569, AA477022, AA149978, AH459301, A1916905, AA426479, A1900412, A1333285, A1336594, AA365994, H83596, A1524485, A1092161, A196349, AA160311, W74404, N27382, W17034, A1536804, A1336594, H83596, A1524485, A1092161, A196349, AA160311, W74404, AA829164, AW192237, AA765990, A1803792, A1253581, A196349, AA160311, W74404, H96016, A1863237, A1915904, C16527, A1468579, AA379225, C16442, A1867113, T23879, AA918013, A1224581, A1224589, AA373431, AA639187, AW261888, AA894881, H43838, AA081258, AW088913, AW024050, D61727, H96017, AW160880, AW161522, AW161495, A1090929, N89775, Z99394, C71261, A1687157, A1620764, N19762, A1814820, AA354795, AA476912, A1624528, N79269, D25568, AF064257, D18517, and AC004222.  |
| HHIEC61 | 2268 | 741280 | 1 - 262 | 15 - 276 | AF200630, AF201372, and AL022313  |
| HHIEK68 | 2269 | 702337 | 1 - 522 | 15 - 536 | AL261872, A1679138, A1434461, A1379427, A1679712, A1963616, N98728, A1823643, A1769963, AA555094, AW294343, AA098469, A1341436, A1660067, AA0970537, A1682850, C01626, AA401874, A1985926, R71022, AA772273, W31010, AA705992, A1862548, T26896, and AF085849   |
| HHIEL47 | 2270 | 719825 | 1 - 535 | 15 - 549 | A1703499, AA494263, A1002734, A1054352, A1273847, A1580250, A1253382, AA502991, AA728812, AA811208, AA834707, AA594072, AA654661, AA452325, AA484143, A1674840, A1922930, A1205009, A1002941, AA862243, AA579205, AA747540, AA776646, A1627624, AA515728, AA486559, AA442176, AW084246, B81017, AA436796, AA297538, AA582463, E63210, A1079734, AA984187, AA448897, AC007055, A1049780, A1133500, AC004765, A1031685, AC004466, Z83340, AC004099, A1031177, A1049610, A1121825, AC004682, AC007103, AC004655, AC006312, AC006543, AC006367, AC006137, AC007387, AC006544, AC004984, AC006531, AC005669, A1031428, A1031283, A1023498, AC006166, AC007214, A1000337, Z81364, AC006115, A1008633, Z99716, Z93783, AC005722, AC006365, A1032051, AC007225, AC006978, A1035420, AC003037, A1000961, AC007193, A1000512, A1031662, AC007842, A1011889, A1023048, A1034425, A1000511, Z97054, AC005190, A1034420, AC004217, Z84469, AC004552, U91322, A1035495, U91327, AC005146, AC002080, A1035525, A1000704, A1133445, AC003043, A1035697, AC005696, AC0050513, AC009743, Z97630, A121769, A1229941, U07563, AC008154, AC004605, AC005452, AC005582, A1009182, AC004685, AC007285, A1001052, A1133163, A1009174, AC005065, AC005212, U78027, AC007090, AC006271, AC003950, AC005701, AC005937, AC007707, AC007226, AC006538, |

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| HHEFB29  | 2271 | 690073 | 1 - 532 | 15 - 546  |
| HHEFB73  | 2272 | 947568 | 1 - 432 | 15 - 446  |
|          |      |        |         | AL039087, AL037259, AA362688, AA362689, T29199, AA362690, AA49045, 107209, AR067734, 107249, AR068508, AR068510, AR068509, A63954, 109267, 109270, 109268, 109269, A49701, 109252, 109251, A29109, A32111, AR068550, A23373, AR068551, A94048, A94061, AR035224, A94046, A94094, 158322, 158323, E01324, 108638, A27169, A27170, A27171, A39929, A83151, AR038307, AR038321, AR016495, 166495, 166496, 166497, 166498, 166499, 166496, 166487, A93936, 191969, Z96177, E01619, E01239, E01561, A92081, A92080, A92077, AR067733, AR038306, AR029418, A92078, A92079, AR029417, AR038320, AR027319, A91752, A91751, A70359, AR067731, AR027318, AR054109, AR067732, AR038066, AR064436, AR051651, and AR051652.  |
| HHEFK12  | 2273 | 966292 | 1 - 317 | 15 - 331  |
| HHEFL47  | 2274 | 973094 | 1 - 356 | 15 - 370  |
| HHEFLZ58 | 2275 | 735615 | 1 - 366 | 15 - 380  |
| HHEGA66  | 2276 | 969467 | 1 - 247 | 15 - 261  |
| HHEHC74  | 2277 | 974406 | 1 - 725 | 15 - 739  |
| HHEHD94  | 2278 | 964103 | 1 - 306 | 15 - 320  |
| HHEHU73  | 2279 | 923895 | 1 - 432 | 15 - 446  |
| HHEHW78  | 2280 | 973140 | 1 - 579 | 15 - 593  |
| HHEH119  | 2281 | 973230 | 1 - 512 | 15 - 526  |
| HHEH130  | 2282 | 961974 | 1 - 536 | 15 - 550  |
|          |      |        |         | AW277207, AW157157, A818300, AW277157, AW156950, A4313026, A4152106, A313177, AW163128, AW161415, A382940, A201561, A773272, A3826520, A267630, AW081919, AA731178, AA017675, AW390380, A1222064, AW390751, AF180920, AF159159, and AF000091.   |
| HHEHY91  | 2283 | 974407 | 1 - 521 | 15 - 535  |



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| <p>             AI923451, AI635028, T74524, AI732789, AI078409, AI644090, AI813783, AA602906, AI754653, AI923458, AI587167, H07953, AI744830, AI870453, AA825827, AW028943, AA832145, AI612142, AA570740, AA483606, AW243793, AA536040, AA613624, AI821355, AI192440, AI040051, AA457637, AW270258, AI690497, AI583252, AI523316, AI610941, AI084609, AA487475, AI669589, AA622801, AA568204, AI860751, AA410788, AW10354, AI445934, AW088656, AA572813, AI499554, AW338860, AA713705, U07974, ZN5004, AI457596, AA225890, AA679194, AI962030, H696601, AI819994, AI251576, AA862183, AI821768, AA492264, AW300749, AI537197, AI858814, AI493264, AI628234, AA578621, AW021083, H68343, AI792304, AI821200, AI290311, AI925869, AI362415, AI791475, AI60750, AI754170, AI828275, AI053978, AA228778, AW069357, AI753849, AW075729, AA483256, AI360538, AI523839, AC008498, AC002476, AC006511, AC004605, AC003037, AC005544, AC003043, I47234, AI022336, AC009247, AI031846, AC007263, AC005529, AC005839, AI031432, AC002301, Z94056, AC007934, AC005015, AI109798, AC007421, Z83840, AC006641, AC000041, AI035398, AI035420, Z98304, AF047825, AC004242, AI133448, AI049780, AI133243, AI022320, AF196972, AI031120, AC004491, AC004019, AC002425, AP000355, AP000212, AP000134, AC005971, AC005209, AC007637, AC007694, AF165926, AP005082, U62293, AC004822, AI132712, AI109963, AC005969, AC000025, AI021154, AC004526, AC005057, AC049831, AC0065231, AC005377, AI096766, AC004148, AI049569, AC002627, AC005530, AC008040, AI031733, AC002549, AC006064, AI031662, AC003963, Z86490, AC004821, AC005821, AP000032, Z82244, AC005488, AC008372, Z83844, AC005480, AC005921, Z99128, AC004646, AC006333, AC005486, AC007041, AI023239, AC006017, Z85987, AP000704, AC004834, AC005914, AF111168, AC007182, AC005089, AC004797, AC002119, AI139054, AC007546, U91321, Z84487, AC003669, AI049809, AC003982, AC007277, AB023060, AF134726, AC009028, AC004195, Z97832, AC002400, AC004263, AC006111, Z98884, AC008018, U91326, AC016025, AC007283, AC006530, AC005049, AC005519, AC007055, AC004685, AI079342, AC000353, AC005237, AC000035, AC002352, AF001549, AF196779, AC007630, AI031597, AI049636, AP000008, AI022069, AC004832, AC004841, AI024507, AC005527, AI133163, AC007371, AI121603, AI022316, AI031289, AI034423, AC007537, AC007242, AC002072, Z82217, AC002551, AC004662, AI021579, AC004858, Z83845, AC005011, AC006210, AC004477, AI008725, AC007938, AC003029, AP000510, AI031659, AC006372, AC004383, AF001548, AC005264, AC007845, AC007191, AC002128, AC007312, AC004156, AI109952, AC005566, AC007050, AC002271, AC006515, AI031589, AC005902, AC011311, AC007193, AI050307, AC005332, AC005291, AF196970, AC007536, AC005520, AC006121, AP000346, AI035685, AC007090, AI109801, U78027, AI109865, U95740, AI035587, AC007731, AF042884, AC005500, AP000503, AC002126, AI049692, AC007542, Z19258, AB020861, AC006449, AC005696, AC003036, AC004099, AI023876, AC004447, AP000209, AP000047, Z84469, AC004033, AC003108,           </p> |  |  |  |  |
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|          |      |        |          |           | AL096701, AL021878, AE000658, AC004024, U85195, AP000151, AC007766, AF018458, AC005581, AC008132, AL031295, Z93848, U91318, AP000115, AC006285, AC007993, AL117351, AL049897, AF129756, AC005859, AC003046, AP000252, AC005585, AL035530, AP000103, AC006062, AP000694, AC005726, AC008044, AC005412, AC016830, AL049795, AC007425, AL049761, AC006953, and AC004835.  |
| HHKGG10  | 2284 | 961957 | 1 - 399  | 15 - 413  |  |
| HHKKG20  | 2285 | 918032 | 1 - 214  | 15 - 228  |  |
| HHKKG27  | 2286 | 858384 | 1 - 478  | 15 - 492  |  |
| HHKKG06  | 2287 | 913809 | 1 - 459  | 15 - 473  |  |
| HHKKG61  | 2288 | 913413 | 1 - 1448 | 15 - 1462 |  |
|          |      |        |          |           | AA679016, AW408019, AA9251937, AW407984, AL623302, AH431307, AH431316, AW392670, AH432644, AW372827, AL791349, U46349, AH432653, AH431243, AW081103, AH432655, AH432654, AH432650, AL042433, AW384394, AL134536, AW363220, AH432661, AH431255, AL042551, Z99396, AH432677, AH431337, AL119401, AH432651, AH431230, AH431310, AH431312, U46351, AL119355, U46345, AH02510, AH431347, AL119497, AH431358, AL039912, AH432657, AH431354, AH432649, AH432647, AH432675, AL119483, AH431247, AH432643, AH431248, AH431330, AH432642, AH432665, AH425519, AH431314, AL037205, AL035530, AR06494, AF019249, AB026436, AR060234, AR054110, Y17793, AS1671, and AP064854. |
| HHKKS33  | 2289 | 973233 | 1 - 449  | 15 - 463  | AA338228, AA599423, AL2898350, AL275183, AA384125, AF583291, AL571543, AL031293, AC005207, AL109738, AF111168, AL034402, AC005183, AC005348, AC005790, AC005229, AF134726, Z97630, AL049836, AL022316, AC004024, AC006487, AC016027, AP000503, AC016830, AB009667, Z83838, AL031228, AC005821, Z98743, AC005839, AF064860, AC004820, AC005291, AC005363, AL096706, AC004865, AC007324, AC007917, AC008101, AC004079, Z84483, AC008079, AF111167, AL021154, AP000098, AL034423, AL031311, AC005318, AC004000, AL022312, AL0001502, AC005482, AC005399, AL022726, AC004020, AC007227, AL049764, AL031053, AL121754, AP000355, AC004805, and AC006536.              |
| HHELD03  | 2290 | 868495 | 1 - 883  | 15 - 897  |  |
| HHELD11  | 2291 | 974419 | 1 - 172  | 15 - 186  |  |
| HHEMA34  | 2292 | 704035 | 1 - 354  | 15 - 368  | H09835, and R61607.  |
| HHEMA65  | 2293 | 719229 | 1 - 286  | 15 - 300  |  |
| HHEMD28  | 2294 | 858303 | 1 - 371  | 15 - 385  | H66688   |
| HHENK21  | 2295 | 670784 | 1 - 443  | 15 - 457  | AA150780, AA341445, H65527, N28990, AA972976, AA359199, T55030, AA287792, AC009330, AC009542, AC003689, and AC003678.  |
| HHENM76  | 2296 | 752947 | 1 - 437  | 15 - 451  |  |
| HHENM091 | 2297 | 790100 | 1 - 257  | 15 - 271  |  |
| HHENMQ36 | 2298 | 858289 | 1 - 363  | 15 - 377  | AL240802.  |
| HHENMQ58 | 2299 | 952989 | 1 - 508  | 15 - 522  | AL109748, and AL078614.  |

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| HHENR18 | 2300 | 666335 | 1 - 412 | 15 - 426 | AL109827.  |
| HHEND28 | 2301 | 468911 | 1 - 500 | 15 - 514 |  |
| HHEND45 | 2302 | 919630 | 1 - 338 | 15 - 352 | AC002390   |
| HHENE18 | 2303 | 806606 | 1 - 500 | 15 - 514 |  |
| HHENE38 | 2304 | 662972 | 1 - 432 | 15 - 446 | AC004385.  |
| HHENE47 | 2305 | 720255 | 1 - 382 | 15 - 396 | AL266255, AL302710, AA505091, A0767214, H82739, N30416, AA758853, H83614, AL362648, N79746, T77931, A0013896, T77853, and AL031291.  |
| HHENR11 | 2306 | 917904 | 1 - 622 | 15 - 636 | AA395183, H29208, H29209, and AF102777.  |
| HHENR19 | 2307 | 691023 | 1 - 377 | 15 - 391 |  |
| HHENR23 | 2308 | 709078 | 1 - 289 | 15 - 303 |  |
| HHENR26 | 2309 | 661841 | 1 - 547 | 15 - 561 |  |
| HHENR11 | 2310 | 966906 | 1 - 936 | 15 - 950 |  |
| HHENR78 | 2311 | 773537 | 1 - 417 | 15 - 431 | AW007450, AW021951, R56093, A1809818, AF118885, AC002468, AL109627, AC005004, AC005562, AC008273, AC005082, AL034555, AC004815, L04140, AC006023, AL133243, AC018633, AC006538, AL132712, AL080243, AC005839, AC007660, AC007041, AC006137, AL031983, AC007546, U85195, AC005703, AL132857, AC005488, AL009179, AC005363, AC005104, AC004019, AP000704, AC007738, AC005252, AL031595, AL008582, AC006077, AF043945, U07563, AL109963, AC007182, AP000295, AC006049, and AC008041 |
| HHENR78 | 2311 | 773537 | 1 - 417 | 15 - 431 | AC005326, and AC004924   |
| HHENV38 | 2312 | 657383 | 1 - 401 | 15 - 415 | AL990739, A1927951, A1989475, A1990284, A1082831, AW295986, A1798629, A1380475, AA777280, AL150438, A1867928, AW194833, A1478440, and A1758120.  |
| HHENR26 | 2313 | 670837 | 1 - 436 | 15 - 450 |  |
| HHEOF20 | 2314 | 861457 | 1 - 347 | 15 - 361 | Te3737, and AC004755.  |
| HHEOF58 | 2315 | 841978 | 1 - 483 | 15 - 497 |  |
| HHEOG17 | 2316 | 662948 | 1 - 342 | 15 - 356 |  |
| HHEOG67 | 2317 | 588154 | 1 - 326 | 15 - 340 |  |
| HHEO118 | 2318 | 677891 | 1 - 381 | 15 - 395 | AA976063, A1680977, A1291003, A1796262, AA889834, AA147542, AA383327, A1857560, AA234045, R81076, A1924779, AA826483, A1368773, AA190557, A1680857, A1041119, A1703295, A1802472, AA349132, R25344, R23959, A1360000, W60453, A1557581, and AF048977.  |
| HHEO110 | 2319 | 911814 | 1 - 450 | 15 - 464 | AW385142, AW175056, AW062951, W19655, and AA452790.  |
| HHEO159 | 2320 | 588168 | 1 - 519 | 15 - 533 |  |
| HHEOX60 | 2321 | 734311 | 1 - 400 | 15 - 414 |  |
| HHEO217 | 2322 | 793087 | 1 - 393 | 15 - 407 |  |
| HHED146 | 2323 | 718950 | 1 - 550 | 15 - 564 | A1653678, T60029, NS8301, AW162128, A1859744, A1273990, N73203, AA506744, R85174, AA366676, A1879951, AA653291, R32162, AW166824, A1018726, R93026, AA811150, AA577719, M77867, AA744993, H78281, AW189401, AA737523, AA642823, AA632565.  |

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| HHEPD73  | 2324 | 966828 | 1 - 548 | 15 - 562 | AW102944   |
| HHEPF31  | 2325 | 858269 | 1 - 355 | 15 - 369 |  |
| HHEPG15  | 2326 | 659664 | 1 - 548 | 15 - 562 | AF150253, AF143143, X85654, and AF161548.  |
| HHEPK28  | 2327 | 686489 | 1 - 342 | 15 - 356 |  |
| HHEPN473 | 2328 | 683270 | 1 - 414 | 15 - 428 | AA505298   |
| HHEPN44  | 2329 | 716494 | 1 - 928 | 15 - 942 | R10189, AF1984168, AA583386, AW020198, AL047667, AL042670, A1917132, A1003469, A1915081, A1310670, AA324108, AW247338, A1612070, AA614254, A1611531, AA224889, AL044701, A1310787, AA904211, A1889995, A1828721, A1653999, AW082104, AA468505, A1182873, AA487209, AA644090, AP62030, A1349130, AA613624, AA557945, AA325331, AA640104, AA278954, A1792092, A1821056, A1821805, AA493808, AW70385, A1732070, AA551519, AA232928, AA230025, A1653776, A1734119, A114494, A120282, AA640305, AA653139, AW020094, AW021015, AA359267, A1567676, AC005295, AC005067, A1035681, AL022316, AC003108, AC002351, Z99714, AC004019, AC005102, AC002554, AL031281, AC003041, AC005520, Z95115, AC006285, AC005632, AC005972, AF001549, D88268, AP000553, Z95116, AC004448, AL033527, AC005904, AC016025, AP005555, AP005529, AC007510, AL133448, AC004859, AC005280, AL000492, AP000501, L44140, AL009181, AC009498, AC005527, AL121658, AL023879, AC009247, Z93244, Z85986, AC005231, AC005228, AC005288, AL031311, AC004834, AC005081, AP000503, AC005230, AL121655, U89335, AL133246, AC005808, AP000263, AC004263, AL135960, A1310116, AL121655, AC004098, AC005670, AL022721, AC005089, AL050307, AP000104, AC007919, A1216755, U52112, AL049738, AC002347, AL008706, U07561, AC004601, AC002300, AC004000, AL121754, AC006965, AP000036, AF111169, AL049692, AC006511, Z97056, AP000133, AC005900, AC004526, A1003147, AL132992, AL035684, AC002310, AC006649, AP000691, AC005684, AC002091, AC005277, AL06791, AL031230, AL049757, AC007240, AL031289, AC005011, AF053356, AC006347, AP006688, AC005519, A119054, Z95113, AC006372, AC005071, AF190739, AC004876, AP006006, AC005412, AP000116, A1134726, AC005409, AC003880, AL078581, AC004967, AC005015, AL034400, AL022326, AC005484, AC004962, AL121748, Z93241, AC004973, AC006468, AC005746, AC006014, AC007938, AC005006, AC004897, AP000511, AC005618, AC004797, AL008718, AL121653, AC005488, AC007055, AC003109, AL022329, AC005300, AL133163, AL049636, AL109967, AC005924, Z73979, U95739, AC0084929, AC005595, AC005933, AC004799, AC007676, AC002381, AC007390, AC006241, AC005535, AC006277, Z75407, U78027, AC004125, AC005856, Z94044, AL020993, AC005057, AC007536, AC005086, AF025588, AC002136, U47924, A133353, AL031432, AP000696, AC007436, AC005694, AP000947, AC003956, AC002544, AC005041, AL096677, AF109907, AL049835, AP000485, AP000113, AC008372, AL121595, AC003030, AC004765, AC004805, AL031602, AL035588, AL049694, AL034418, AL035422, AC007546, AC005940, AC004815, Z83840, AF015416, AC006064, AC002477, AC003042, A1109865. |

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|---------|------|--------|---------|----------|---|
|         |      |        |         |          | D00591, AC004820, AC004695, AL049631, AP000210, AP001132, Z98743, AC003043, AC006946, AL031670, U91325, AC004150, AC006023, AC005088, AC006480, AC003101, AL049780, AL0078639, AL0008715, AC007899, AL035412, AC006357, AC005726, AL008370, AL049760, AL034379, AP000180, AP000430, AC004817, AC004257, AC002430, AL133396, AC005593, AL049874, AC005914, AC004787, AC006048, and Z82178  |
| HHEPRI4 | 2330 | 869381 | 1 - 640 | 15 - 654 | W86315, and AL076085  |
| HHEPS91 | 2331 | 493744 | 1 - 552 | 15 - 566 | AA021393, FM4252, AL133083, AL783911, AA557945, AA535216, D44672, AA773463, AL143051, AA062017, AL135246, AA488746, AA828637, AL355559, AA676592, AA900275, AL129365, TS2772, AA484892, AA419389, AA649642, AA828834, AA533176, AA180056, AA601356, A1813957, AA069389, AL281818, AW089950, AL627917, AL753536, AW277109, AA745524, AL217116, AA568314, N95817, AL356440, AL620585, AA491423, AA355367, AA610433, AL635677, AL754293, AW028950, AL623764, AW104788, AL872503, AA5579188, AL10584, AA744465, AA745470, AA744449, T47138, AL242502, AC004752, AC009275, AC007955, AC005229, AL049832, AC008009, AC005527, AC005529, AC002425, AC003108, AL031681, AC004019, AP000014, M13792, AC007386, Z99716, AC002543, AC007055, AL008582, Z83844, AC005180, AB020865, AC010205, AC004876, AC005409, AC000025, AC005510, AF001548, AC008312, AL049759, AL096701, AL049869, AC007731, AF134726, AC007161, AL121603, AC005500, AC004984, AL121769, AL008718, AL121638, AC006449, AC005156, AC004655, AL033527, AL022320, AF019413, AP00212, AP000134, AC005089, Z98884, Z97196, AC005081, AC002456, AC007687, AL049776, AL117694, AF11168, AL133163, AL034417, AC005823, AC006511, AC005328, AC005971, AC009247, Z98304, AC00353, AC004067, AC007686, AC004796, AC006468, AC007376, AC008124, AC012627, AC005015, AC005899, AL021407, L78833, D87675, AC002432, AC006578, AC004859, AL021154, AC007216, AL035659, L7007688, AL003147, AL121653, AL031074, Z84469, AC007263, U80017, AL133245, AC002402, AP000509, AC004686, AL031295, AC004103, AC007546, AL135744, AP000430, AC002477, U91323, AP00501, AC000004, Z84467, AL050343, AC005722, AC002553, AC007367, AL096678, Z98257, AC008372, AL190554, AL022313, AF109907, AC007226, Z98751, AC002400, AF000141, AL049757, AC000052, AC006211, Z86690, AC005011, AL035249, AF205388, AC004895, AC007308, U91318, AC004253, AL022336, AC005962, AL031668, AC004821, AL096710, AL121655, AC000405, AC005519, AC006285, Z98949, AC007283, AC004106, Z93023, Z83822, AL024498, AL022238, AL034420, AL021395, AC005972, AC006536, AC004883, AC008040, AC007277, AC005041, AC007566, AC006538, AC005332, AC002350, U91322, AC005484, AC004832, AC006559, AL022721, AL031273, AC005209, AL009051, AP000551, U52112, AC005291, AC005531, AC005358, AL022719, AF004858, AP000551, AC006121, AC000003, AF001550, AC005686, AC016025, AC004622, AC006077, Z97183, AC006059, AC008015, AC005746, AC002991, AC002470, AC008079, AC005874, AF134717, AL133246, AC005037, AL035423, AC003043. |

|          |      |         |          |           |   |
|----------|------|---------|----------|-----------|---|
|          |      |         |          |           | AC005145, AL031672, AC004526, AL132777, AL121852, AC004598, Z82198, AP000349, UA7924, AC005632, AL049830, AL034549, AC002312, U01326, AC002299, AL049874, AC004813, AC007371, AC005620, AC006023, AL035400, Z97056, AC007444, AC007540, AC005233, AC005535, AC005815, AL020997, AC002404, AC005288, AP001051, AC006080, AC003041, AC004659, AC005516, AF020955, AC005488, AL049576, AC006064, AL080243, AC006251, AC006160, AC002301, AC006597, AL080317, AC006132, AC004851, AC005049, AL133500, AC007676, AC003104, AC004263, AC003101, AC006241, and AL031594. |
| HHFEPZ10 | 2332 | 963715  | 1 - 155  | 15 - 169  |   |
| HHFEB17  | 2333 | 918056  | 1 - 408  | 15 - 422  |   |
| HHFEB47  | 2334 | 841899  | 1 - 464  | 15 - 478  |   |
| HHFEG21  | 2335 | 934680  | 1 - 457  | 15 - 471  |   |
| HHFEG45  | 2336 | 717303  | 1 - 306  | 15 - 320  |   |
| HHFEG52  | 2337 | 956214  | 1 - 191  | 15 - 205  |   |
| HHFEG72  | 2338 | 922619  | 1 - 329  | 15 - 343  |   |
| HHFEG86  | 2340 | 784752  | 1 - 387  | 15 - 401  |   |
| HHFEG75  | 2339 | 760960  | 1 - 375  | 15 - 389  | Y17793.   |
| HHFEGH63 | 2341 | 744596  | 1 - 386  | 15 - 400  |   |
| HHFEO17  | 2342 | 952416  | 1 - 227  | 15 - 241  |   |
| HHFEO11  | 2343 | 966293  | 1 - 408  | 15 - 422  | T89011, and AL047171.   |
| HHFEO182 | 2344 | 728596  | 1 - 370  | 15 - 384  | AA659367, and AA661891.   |
| HHFEO189 | 2345 | 786607  | 1 - 173  | 15 - 187  |   |
| HHFEOX01 | 2346 | 871911  | 1 - 582  | 15 - 596  | AA489782, and AF129078.   |
| HHFEOQ36 | 2347 | 707926  | 1 - 445  | 15 - 459  |   |
| HHFEOP38 | 2348 | 709076  | 1 - 394  | 15 - 408  | Z98256.   |
| HHFEOP83 | 2349 | 780397  | 1 - 676  | 15 - 690  | AA720645.   |
| HHFEOQ47 | 2350 | 690160  | 1 - 428  | 15 - 442  | AF104235.   |
| HHFEO317 | 2351 | 662203  | 1 - 499  | 15 - 513  |   |
| HHFEOQ09 | 2352 | 755007  | 1 - 451  | 15 - 465  |   |
| HHFEOV03 | 2353 | 9233324 | 1 - 475  | 15 - 489  | Z27104, AA047563, and AL123214.   |
| HHFEOV39 | 2354 | 932851  | 1 - 873  | 15 - 887  | AA355773, and AA355926.   |
| HHFEOX60 | 2355 | 915561  | 1 - 453  | 15 - 467  |   |
| HHFEOY32 | 2356 | 698633  | 1 - 365  | 15 - 379  | AA353703.   |
| HHFERA17 | 2357 | 858239  | 1 - 257  | 15 - 271  |   |
| HHFER003 | 2358 | 933271  | 1 - 422  | 15 - 436  | AL041364, AA381202, H22202, AA573189, AL623423, A1889612, AA130055, A1298936, AA688189, AA026119, AL046322, H82057, AA301758, and AL049795.   |
| HHFERB04 | 2359 | 854112  | 1 - 1070 | 15 - 1084 | AA102072, A1124646, AA136417, AF169548, and AC004099.   |

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|---------|------|--------|----------|-----------|---|
| HHERN1  | 2360 | 966003 | 1 - 363  | 15 - 377  |   |
| HHERO39 | 2361 | 858238 | 1 - 426  | 15 - 440  |   |
| HHERO95 | 2362 | 928142 | 1 - 1324 | 15 - 1338 | AI761092, AW088116, AI660060, AA460070, AI823894, AI377047, AA833746, AW022132, AI660032, AI573194, AA938309, AA741093, AW294514, AA856722, AA499778, AI635527, AA948449, AA767492, AA311065, AW183379, AI167213, AA621378, and AI133101.   |
| HHERO04 | 2363 | 925697 | 1 - 504  | 15 - 518  |   |
| HHERO30 | 2364 | 858049 | 1 - 793  | 15 - 807  | AA151636, AA478851, AI018742, AI335888, AI268195, AA479950, AI436179, AI268216, AA360626, AW362452, and AA021655.   |
| HHERU77 | 2365 | 934167 | 1 - 473  | 15 - 487  | AW276744.   |
| HHERV38 | 2366 | 933142 | 1 - 440  | 15 - 454  |   |
| HHERX04 | 2367 | 925700 | 1 - 643  | 15 - 657  | AA749124, AW024899, AI738779, AW298129, AI936218, AI472304, AI418577, AI309735, AI081335, AI809820, AA016255, AA054132, AI024619, AA905716, H21932, AA256702, N79804, N77846, N77838, AI874019, AA872041, and AC004895.   |
| HHESF07 | 2368 | 952214 | 1 - 588  | 15 - 602  | AI248073, AA235254, AI658612, and AA250935.   |
| HHESG02 | 2369 | 918639 | 1 - 316  | 15 - 330  | Z73495.   |
| HHESH33 | 2370 | 893701 | 1 - 482  | 15 - 496  |   |
| HHESJ02 | 2371 | 792431 | 1 - 241  | 15 - 255  |   |
| HHESK03 | 2372 | 922998 | 1 - 569  | 15 - 583  |   |
| HHESK56 | 2373 | 779164 | 1 - 534  | 15 - 548  |   |
| HHESN02 | 2374 | 918634 | 1 - 390  | 15 - 404  | AF085233, and AF169035.   |
| HHESO94 | 2375 | 793390 | 1 - 607  | 15 - 621  | AF150222, and AF161351.   |
| HHESF87 | 2376 | 858224 | 1 - 671  | 15 - 685  | AA598870.   |
| HHEST60 | 2377 | 858220 | 1 - 300  | 15 - 314  | AI023584.   |
| HHESU02 | 2378 | 918668 | 1 - 490  | 15 - 504  | AP000689, AC006312, Z84466, AI080243, AC005722, AF064861, Z83822, AF001549, AB026898, AI031311, Z84480, AI035681, AI096763, AC003071, AB003151, AC002310, AC005796, AC003101, AC005081, AC005049, AC004031, AP000499, Z82203, AI022336, AC004526, Z83847, and AC004448.   |
| HHESU03 | 2379 | 923030 | 1 - 671  | 15 - 685  | AI929353, AA310170, and AW401881.   |
| HHESU54 | 2380 | 926341 | 1 - 412  | 15 - 426  | AA804825, AA113301, AW264764, AI580548, AA130859, AA581238, AI805438, T66032, AA533703, AA578089, AW265073, AI963514, AW274078, AA494038, AA984263, AA630834, AA601318, AA341817, R42117, AA811489, AW402458, R64204, AI138271, AA486106, AA708021, AA069589, AA470544, AA059369, AA339011, R43218, AI057350, AI354862, AA628627, AA857296, AA814527, H46593, AW327868, AA584513, R15075, AA810200, AL009029, AC008134, AC006965, Z97181, AC004104, AP000018, AC004791, AC005881, Z97055, Z85996, U91321, AC004167, AI034548, AI023284, AC005067, AC004895, AC006211, and AC004448. |
| HHESU05 | 2381 | 783820 | 1 - 324  | 15 - 338  |   |



|         |      |        |         |          |  |
|---------|------|--------|---------|----------|--|
| HHESV46 | 2382 | 935074 | 1 - 511 | 15 - 525 | <p>AC003042, AC008062, AC005620, AL021407, AL078472, AC002487, AL080245, AF038458, AF064858, Z83846, U52112, AC005184, AC007182, AF015720, AC005829, AC006050, AJ229041, AC007688, AC004752, AC004125, AC004934, AC003035, Z84814, AC005358, AL034417, Z98044, AC005598, AL109753, AL031665, AC006065, AC006120, AL009183, AC008729, Z93930, AC006454, AC005913, AC002300, AP000022, AC005666, AL133448, AP000511, U89337, AC005668, AC004381, AL008638, Z95115, AC005015, AL035457, AL096791, AL008720, AJ251973, AC004876, AC004938, Z83733, U95743, AC005736, AC004864, AC004887, AL049749, Z97353, AL022318, AL034549, AC004231, AC005102, AC003687, Z72006, AC004750, AC005820, AC006039, AC004816, AC004967, AF126403, AL035695, AL020995, AC010206, AC005177, AC005094, AC004806, AL117338, AC004962, AC008123, AC002302, AC007546, AC004991, AC003010, AC007993, AC005353, U07563, Z95114, AC007115, AL109984, AC006538, AC005224, AC005386, AP000216, AC004794, AC006040, AC016831, AC005295, AC007686, AC002351, AL034429, AB023054, AC007225, AC005220, AL031650, AC005831, AC007073, AC007157, AL096772, AP000265, AF015416, AC007773, Z82198, AL133445, AF130343, AC005808, AC005277, AC004663, AL049830, AL031767, AP000034, AP000101, AC009363, AC004659, AC005291, AC004584, AP000240, AC004693, AC006060, AC004551, AC005822, Z82189, AC004609, AC007193, AC007297, AL079342, AL109653, AP000208, AP000130, AC006162, AL031681, and AC002347.</p> <p>AA569179, AA299351, AL679759, AV238495, AL246061, AL054090, AL620266, AL298079, AL185394, AA856866, AA434346, T08386, AT114494, AA582746, AA192293, AA657910, AA768179, T06292, AL039309, AL037836, AL042373, AA741301, AL251241, AA552109, AL630894, AL284543, AL254770, AL251944, W96277, AL251034, AL251203, AL251284, AW128881, AL590404, AL250552, R32529, AA579399, H43183, AH79068, H16875, AW408767, H24957, AA502688, AA846923, D82321, F08214, T41134, AA744095, AA662614, F37201, AL249853, T05617, AW019964, AA736713, AL207728, AL285493, AA878407, AL236626, AW303098, AW341382, AL889579, AL345394, AA484892, AL445373, AL348780, AL038977, AL671077, AL143653, AL036909, AG654535, AA484298, AL973173, AA363957, AA020882, AL707744, AL687542, C17540, AL884861, AL636794, AL078409, AT110685, H90845, AA827383, AW079737, AL439676, AA353168, AW303822, AH21755, AL124779, F17537, AA295893, AA480486, AA295899, AA682536, AL863279, AA410771, AA831919, H63220, AA469230, AA57426, AA714073, AA364236, AL678476, H58891, AL281401, AL860535, T63895, AC005084, AL049856, AC007655, AC005234, Z73900, AL122020, AL035458, AL132666, AC005768, AL096791, AL132641, AC004996, AC006317, AC006236, AL117738, AL132861, AC004820, AF205588, Z92844, AC005998, Z78022, AC004084, AC006343, AC005996, U80017, AC005993, AL117737, AC004815, AL021368, AC004382, AL078477, AL035525, AC005879, AB017602, AF029308, AC005050, AC004974, D83253, AC007537, U91319, AP000106,</p> |
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| HHETA53 | 2383 | 858211 | 1 - 751 | 15 - 765 | AC011311, AL133445, AC004053, AC007731, AL009174, AC005500, AC005539, AC002565, AL023653, AC004905, AC008122, AL020995, Z54246, AC006987, AC007276, AC004605, AC018769, AC004485, AF126403, AC002480, AC005516, Z97181, AL024497, Z99571, AL078604, AC0010205, AF001549, AC006453, AC005610, AL022319, AL117556, AP000279, AC007786, Z83820, AL022162, AC005908, AL049569, AL021396, AC006052, AL135879, AL121790, AP000303, AC004649, AB020869, AC006077, AC005915, AC006160, AC004158, AC002994, AL049650, AC007395, Z93928, AC000120, AL008583, AC006381, AC006572, AC005230, AC008069, AC006333, AC005094, U83672, AC006430, AC005488, AC000500, AC004134, AL109847, Z81369, AF107885, AF064866, AL079295, AC000690, AC005220, AC007444, AC007406, Z82194, AL136504, AL031427, AL008635, AC004935, AL133353, AC005410, AL034402, AL096712, AC007738, AP000301, AC004881, AC005272, AF111168, AF124730, AC004525, AC007238, AF039906, AC002301, AC006459, AC004001, AC005878, AC005095, AC007387, AL049776, AC008984, AC004950, AC006288, AF222686, AB026898, AC008079, AC008125, AC005826, AL136297, AC005881, AL035634, AC006398, AC005030, AC004916, AC006379, AC006254, AL031681, AL049777, AL035249, Z99289, AL022578, AC004694, AC003049, AC005237, AC008179, AL022345, AP000045, Z82203, AC005752, AC007541, AL031672, AL118497, AL050337, AL022329, AC008015, AL118573, Z76735, AC004645, AC009542, AF130248, AC009330, AC004453, AC004712, AC008012, AC005035, AC004448, AC005823, AC002525, AL021578, AC006197, AL021918, AC006544, AC009460, AC007514, AF064865, AP000555, AC005033, AL049836, AC005376, AP001068, AL033504, AP001067, AC002303, AL137100, AC000395, AC005639, AC004692, AC004830, AL022717, Z99943, Z95327, Z99128, AL078603, AL011930, U89335, Z69890, AC006374, AC003065, AL049833, AL008718, AC006373, AC006111, and AP001054. |
| HHETB42 | 2384 | 973127 | 1 - 218 | 15 - 232 |  |
| HHETCS0 | 2385 | 927000 | 1 - 368 | 15 - 382 |  |
| HHETD13 | 2386 | 858218 | 1 - 654 | 15 - 648 |  |
| HHETE34 | 2387 | 974592 | 1 - 719 | 15 - 733 | AA722372, AW440545, AL031119, AL038971, AL041706, AL046746, AA812281, AL110760, AA083046, TS6253, AA410828, AW151713, N48230, AL048125, AA601157, AA653798, AW075511, AA359347, AA459749, AL135377, AL040382, AW245747, AA724333, AL119691, AW303196, AL119762, AL284640, AW301350, AL669615, AL963720, AL334443, AL119691, AL121235, AW274349, AW102811, AA564634, AB24251, AL791664, AW274346, AL270117, AL492326, AL046409, AL281881, AA503600, AW408707, AL037683, AL041690, AL038705, AA581903, AA478355, AA634889, AL956131, AW193265, AW021583, AL589230, N94311, AL368745, AL367371, AA584167, AL583283, AW238278, AL040921, AA580808, AA468022, AA579366, AL431303, AA806796, AW069625, AA623002, AA587604, AA507824, AW270270, AL491814, AW020992, AA372481, AA490183, AL732865, AL720702, AL046205, AL168256,   |

|         |      |        |         |  |
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|         |      |        |         | AI550211, AW167374, AW438643, AA493708, AI919265, AA351056, AI613280, AI860020, AA714433, AA610491, AI708009, AA613227, AI085719, AIH71481, AA521323, AI499938, AW405299, AA658362, AI355206, F36273, AI345518, AA488746, AW306025, AC004638, AC003692, AI180243, AC002549, AI121603, AC005527, AC004799, AC016025, AC006539, AC006312, AC002400, AC000085, AC006285, AI050341, AC004686, AC005565, AC005919, AC002126, AC005529, AC004019, Z81369, AF049895, AI022726, AC008372, Z86061, AC007688, AC004490, AC004987, AC002451, AI079295, AC007363, AC005412, AI133245, AC005829, AI022329, AC005295, AC007298, AC005250, AC005740, AC007406, AC004765, U75638, AF124523, AC002996, U95742, AC006544, AC009330, AC002310, U47924, Z97054, AI022163, AP000553, AC002470, AC006208, AC004890, AC009247, AC006480, AC000358, U75285, AC005815, AC004967, AC006543, AC003958, AI031577, AI022316, AF207550, AC007666, AC000353, AC004963, AP000990, AC004861, AF001549, AI021391, AP000103, AC005037, AC007371, AI031681, AC002115, AP000557, AC006536, AI023284, Z85987, AC003693, AC008064, Z99916, AC007676, AI022326, AC007193, AC006948, AC010202, AC005632, AC005089, AC002404, AC002041, AI035089, AC002301, AC007546, AC004031, AC007565, AC006195, AC007226, D87675, AF111169, AI022166, Z99774, AC005411, AC009516, AC008062, AC007421, AC006059, AC004472, AI031848, AI049539, AC005696, AI008726, AC002429, AC007677, AC006449, AI096701, AI049776, D83253, AI023882, AI003147, AI021878, AI023513, AC006965, AC008609, AI050318, AC006241, AC002456, AC000052, AC005335, AC007216, AC005763, AI049757, AC002059, Z98051, AI078593, AC005703, AC005839, AF088219, AC005562, AC007878, AI049709, AB020868, AC002064, AC002289, AC004979, AC006057, AC004854, AI049569, AC005940, Z69917, AI022722, AC003101, AC004703, AC005324, AC005067, AI023807, AI133396, AC004593, AI022722, AC006213, AC003029, AC007221, AC004931, AP000163, AC005822, Z84466, AI031785, AC004612, AI031733, AP000313, AF123462, AC006271, AC005844, AI109865, AI035460, AC003663, AC002994, AC006006, AC004025, AI139054, U82828, AC006960, AC004972, AP00252, AC003666, AC016831, AC002564, AC005913, AC006111, AI031276, Z93017, AC001977, AC000025, AC004230, AC009172, AC005971, AC005531, AC005911, AC004087, AC005291, AI109758, AI031662, AI035072, AI021939, AC007055, Z83844, AI031281, AP000050, AC000118, AC005102, AC005469, AI031730, AC004149, AC004650, AC003242, AC004771, AI033527, AC007308, AC004526, AP001053, AI122023, AC005229, AC004895, AF118808, AI006345, AC002991, AI023581, AC002350, AC005666, AI021578, Z86090, AC006001, AP000217, AP000134, AP000212, AC005484, AC003098, AI022400, AC009399, AC002302, AC009248, AP000476, AC006211, AP000117, AC010205, AI024507, and AC005907. |
| HHETI07 | 2388 | 952218 | 1 - 321 | 15 - 335   |
| HHETI94 | 2389 | 793420 | 1 - 424 | 15 - 438   |

| HHETK07 | 2390 | 848748 | 1 - 1028 | 15 - 1042 |   |
|---------|------|--------|----------|-----------|---|
|         |      |        |          |           | AA181422, AA181363, AA192252, AA194285, AA55246, F31811, AB67551, A1636734, A1828721, A1049630, A1068950, AA535216, AA228442, A1923052, AA480486, AA469230, A120552, A1612288, A1251034, A1751162, A1254770, A1284543, A1054090, F13749, A1202311, A12743817, AA525331, W45215, AA579278, AA654781, A1251284, A1251203, A1431434, A1249853, A1366180, AA584041, R83708, A1452836, AA553337, A1744072, A1201483, A1745524, A17303098, A1503019, A1753113, A1583106, F30310, A1160514, A1446478, F24745, A1714190, A193493, A1089625, AA639155, A1709024, A1307837, A1537538, AA695482, A1080833, A1609972, A1884383, AA489856, AA778580, A1500552, A1865807, T41132, A1357976, A1609972, A1884383, AA489856, AA778580, A1500552, A1865807, T41164, A17243945, A1865988, AA326410, A1358089, AA493947, A1310464, AA297789, A1711704, A1560085, A1565084, A1597832, A1620992, AA493947, A1310464, AA297789, A16633799, A1370475, AA533408, AA302661, N74629, A17162697, A1696901, A167154, A111870, AA297670, T70299, AA947575, AA347382, A1737805, A1720768, A1446205, A1929796, AA580251, A1310623, A1630535, A1711773, A1601674, A1287921, AA604180, A1041375, A1606793, T40612, N57681, A4514020, T49184, A1885465, A1573009, A1608751, A1425924, F35684, A1102737, AA516320, A17268322, AA878140, A1054418, A1750125, A1816058, C18779, A1731410, AA633875, A1798321, AA862029, AA376358, A1065031, A17439724, AA323085, AA559290, A1039187, AA810837, A17304699, A1135643, H67064, A1558067, AA557770, A1049534, A1434633, R92998, AA847585, R93919, A1628381, T94394, A1235329, AA632479, AA55232, AA569089, AA745588, A165890, A1608873, A1600253, A1022320, A1005011, A1031230, A1005988, A1050348, L41410, A1031319, A1004253, A1133216, A1049836, A1005412, A1005777, A1031447, A1007292, A1007537, A1000553, A1001548, A1035450, A1004149, A1031777, A1002425, A1035250, D28126, A1005920, Z83826, A1000333, A1002511, A1045555, A1133246, Z54246, A1031577, Z82244, A1004983, A1007792, A1031311, A1005746, A1006449, A1000501, A1021977, A1133249, A1012008, A1005725, A1006474, A1007371, A1005037, A1004587, A1006277, Z83844, A1005839, Z82976, A1049776, A1022336, A1008081, A1006544, A1031132, A1031291, A1079304, A1004034, U73169, A1005753, Z82215, Z95115, A1005231, A1004655, A1009946, A1023060, A1007546, A1007193, A1000833, D87008, D88268, Z81369, A1078593, A1251973, Z99716, A1005694, D88270, A1005756, Z97206, A1034554, A1004859, A1005486, D87012, A1023575, A1003108, A1004973, A1000152, A1079295, A1006372, U80017, Z93784, A1000350, A1007690, A1005786, A1000555, A1002310, A1004815, A1005207, A1004703, A1008707, A1005520, A1031431, A1003070, A1005074, A1005089, A1007225, A1000877, A1008629, A1207550, A1021155, A1004821, A1007387, A1031186, A1002070, A1005695, A1005015, A1001550, A1005184, A1005484, A1002091, A1006441, A1007687, A1000011, Z75407, A1004933, A1004832, Z93023, A1023049, A1031295, A1002350, A1006511, A1022723, |

|          |      |        |          |           |  |
|----------|------|--------|----------|-----------|--|
|          |      |        |          |           | AL031846, L81761, AC005288, AC006132, AF038458, AP000359, A236701, AL033521, AFI09907, AL049793, AC004150, AL121638, AC010183, U47924, AC005768, AL049869, AJ246003, AL109952, AC004896, AB007869, Z95152, AC002420, AL022156, AL031683, AC004534, AL024474, AC001478, AC005209, AC004797, I34294, AF000271, AP000032, AC003692, AC004195, AP000402, AC006468, AC005562, AC007993, AC006046, AL008726, AC008116, X60459, AC005901, AC005971, AC005776, AL096702, AC005527, Z79996, AC006312, AC003013, AL031588, AC004741, AC005355, AL008582, AP000510, AC000031, AP001065, AC004139, AJ011930, AB023048, AC006111, AL133353, AL021395, Z85987, AC002492, U73636, U96629, AL031437, Z82173, AC006487, AC007551, AL022316, AC007227, AP000031, AC004887, Z15025, AL096791, AL031597, AC011594, AC008134, AC002418, AC005214, AF047825, Z97056, AC004895, AC004491, AC006538, AP000509, AC005913, Z84480, Z54147, U53331, Z98752, AC005033, AC009247, AC005046, AL031005, AC004099, Z98052, AL031589, AC005187, AC000075, AC005529, AC004263, AC005318, AC004196, AC000381, AC004596, AC006026, AC000379, AC007384, AF196779, AL021939, and S42653, AC006270. |
| HHETM92  | 2391 | 790879 | 1 - 435  | 15 - 449  | AL885183, AA903775, A1554613, AL291322, AL916978, AW135652, AA393862, and X79828.  |
| HHETQ54  | 2392 | 908567 | 1 - 713  | 15 - 727  | H25211, Z44055, AA452343, A297470, AA366087, AA297673, AA135318, AW161368.   |
| HHETR21  | 2393 | 936252 | 1 - 706  | 15 - 720  | AW402965, N46057, Z41875, P59956, AV005173, AA504590, H23102, AL042001, AL041998, and A1865194.  |
|          |      |        |          |           | AC005158.  |
| HHETR94  | 2394 | 793434 | 1 - 572  | 15 - 586  |  |
| HHETU04  | 2395 | 926997 | 1 - 1022 | 15 - 1036 |  |
| HHETU20  | 2396 | 858206 | 1 - 456  | 15 - 470  | AC007225, AC006449, and Z77249.  |
| HHETV35  | 2397 | 784894 | 1 - 210  | 15 - 224  |  |
| HHETX01  | 2398 | 915284 | 1 - 322  | 15 - 336  | AL035079.  |
| HHETY79  | 2399 | 774171 | 1 - 366  | 15 - 380  | AA310882.  |
| HHEUJA62 | 2400 | 945709 | 1 - 850  | 15 - 864  | AA312734, W23120, AA976304, AA297895, H49170, R76772, B34930, AA356611, AA205378, AA281670, AA352713, AA662069, AA354224, AA521488, AA714210, AW167243, AA448152, D39918, AC004913, and AB023622.  |
|          |      |        |          |           | AA132827, and AL905590.  |
| HHELUC31 | 2401 | 795268 | 1 - 772  | 15 - 786  | AL624024, AA307816, and AB018268.  |
| HHELUC84 | 2402 | 788954 | 1 - 675  | 15 - 689  |  |
| HHELU01  | 2403 | 915274 | 1 - 203  | 15 - 217  |  |
| HHELU86  | 2404 | 784879 | 1 - 719  | 15 - 733  |  |
| HHELU89  | 2405 | 786254 | 1 - 326  | 15 - 340  | R94055, and AL136295.  |
| HHELU02  | 2406 | 918655 | 1 - 605  | 15 - 619  | AL042433, AL134920, AL134902, AL134524, U46341, AW372827, AL119341, AL134528, AL134518, AL134553, and AR054110.  |
| HHETU33  | 2407 | 952043 | 1 - 293  | 15 - 307  |  |

|          |      |        |         |          |  |
|----------|------|--------|---------|----------|--|
| HHEVU42  | 2408 | 918029 | 1 - 167 | 15 - 181 | AL560063, and AC005696.  |
| HHEVU6   | 2409 | 933921 | 1 - 251 | 15 - 265 |  |
| HHEVU135 | 2410 | 965644 | 1 - 145 | 15 - 159 |  |
| HHEVU7   | 2411 | 952041 | 1 - 350 | 15 - 364 |  |
| HHEVU7   | 2412 | 952070 | 1 - 414 | 15 - 428 |  |
| HHEVU63  | 2413 | 973213 | 1 - 564 | 15 - 578 | AL043039, AL043019, AW392670, AL119497, AL119401, AL043037, AL119457, AL043205, AL042978, AL042980, AL142132, AW372827, AL042544, AL119399, AL134902, AL043033, AL119355, AL042614, AL119341, AL119391, U46346, U46351, AW363220, AW384394, AL119439, U46349, AL134533, AL043029, AL119443, AL119396, AL134525, AL134524, AL042551, AL119319, AL134538, Z99396, AL119484, AL119324, U46350, U46347, AL119483, AL134536, AL119418, AL119363, AL043099, AL119444, AL043003, AR054110, AR066494, AB026436, A81671, AR069079, and AR060234.  |
| HHEVU395 | 2414 | 957950 | 1 - 393 | 15 - 407 |  |
| HHEVU64  | 2415 | 974520 | 1 - 630 | 15 - 644 | AW084328, AA525807, AA578621, T51832, AW023111, AA219349, AA805795, F24745, AW265688, AL192440, AA654482, H60738, AL633131, AL446259, F30158, AA808982, AA613966, AA639282, AA668587, AA609826, AA621865, AW245354, AL049709, AL635440, AA584655, AP001053, AL049872, AC007371, U47924, AC005484, AF064861, Z83845, AL031291, AC005967, AC007283, AC002094, AC007050, AC006443, AC005369, AC004257, AL109738, L78833, AC004832, Z98200, AC004460, AC005389, AL022721, AL022320, M87889, AL022318, AC006316, U73169, AC006211, AC004865, AC005088, AL024498, AC004890, AF031078, AC005081, AL109984, U96629, AF030876, AC005041, AC005588, AC005913, AC003108, AC008040, AC002128, AL121595, AC007314, AC006277, AC005971, AC005046, AF030453, AC004084, AC006088, AC004217, AL049869, AF043945, AC004750, AL0031286, AC007637, AC004033, AC006501, AC005881, AL035587, AC005412, AC005288, AL034429, AC005348, AC006511, AC005568, AC005837, AL031282, AC018633, AC003101, AC003029, AC002544, AL008723, AC006115, U91326, AC006006, AC005015, AL135744, AC005666, Z85987, U91323, AC006275, Z82178, AL031588, AC006014, AC004517, AC005488, AC004813, AC007690, AC004771, AL021154, AC005049, AC005567, AP000476, AL109827, AL049776, AC007041, AL133245, AC007157, AC005399, AC002527, AL121603, AP000022, AC005180, AL031133, AC004134, AC007766, AC002477, AC004938, Z73417, AC005874, AF134471, AC006165, AC002369, AL031584, AF196779, AL121655, AC005089, Z95331, AC006530, AC005280, AC004673, AC005527, AC006026, AC004998, U63721, AL035659, Z93396, AC002990, AC004953, Z86090, AL109987, AC006538, AL133243, AC005722, AC002395, AC000025, AC005914, AC006512, AC005546, AL049539, AC004821, AL021453, AC004167, AC003043, AC007057, AL133445, AC005216, AC005003, AF095725, AL118497, AC004253, AC006312, AC005887, AL133289, AC004129, AC003007, AL021578, AL022316, AC002554, AL022302, U91322, AC004242, AC009248, AC004067, AL050348, |

|        |      |        |         |  |   |
|--------|------|--------|---------|--|---|
|        |      |        |         | AP000252, AC005924, AC005736, AC006251, AC004475, AC000353, AC004382, AC005082, AC004476, AC000045, AC003093, AC003689, 293020, AP000230, AC004447, AC010205, AP000144, AC004019, AC006930, AL031685, AC005480, AC002059, 283826, AL050306, 298884, AC005409, AL022336, AL136295, M17262, AF000952, AC005730, AP000690, AC005919, AC005778, AC002365, AC004815, AC005632, AL096702, AC005726, AF111167, AC006449, AP000212, AP000134, AC004797, AC004668, AL096701, AL049743, AC003661, AC003098, AC005233, AC007686, AL021579, AP000359, AP000502, AL035405, AC006064, AC005324, AC016027, 297055, AC006650, AC003663, AC007934, AL133448, AC036572, U91328, AC005011, AP000556, AL078581, AC0016830, 284469, and AC004674. |   |
| HHWE44 | 2416 | 973219 | 1 - 722 | 15 - 736   | AL119444, AL119483, W01339, AL119418, AL134524, AC003037, AC007899, AL031681, AL021977, AL021707, AC005875, AC004967, AL034379, AC007216, U95742, AF109907, AL021453, AC004420, AC004000, AL034417, AL031432, AL022165, AC006287, AC005102, AC005746, AP000300, AC002059, and AC006468.   |
| HHWE40 | 2417 | 973234 | 1 - 799 | 15 - 813   | AL119484, AL079683, AL612032, AA654627, AL043009, AA381163, F23259, W9265197, F19258, AW277102, M62268, AA768409, AL051726, AA558697, AL003743, T51118, AA366820, AW074398, W60516, AA650244, AA515435, AC077817, AL040076, AL021909, AA626747, AL18164, AL635974, AL110770, F29989, AL561335, AA355602, AL284640, F36404, AA366035, F37223, AL961906, AL565988, AW023672, AW303876, AL610159, AL471481, AL061334, F42484, AL053672, H40538, H64560, AA680299, AA749364, F36273, AL792108, AA578141, AL287228, AL334443, AL338229, AL358343, AA350859, AL350211, AL435544, AL433187, AA317170, F37169, AL287284, F34511, T29360, AL963786, AW088058, AL345459, AL264743, AW339687, F28576, AA559290, AL336660, T16592, AA342901, AL053786, AA831388, AL569086, AW392451, AL446464, AA659083, AL635272, AA714595, W56200, AW406755, AA654968, AW193432, AA133986, AL249997, H73081, N71724, AL305547, AL144330, AW339568, AL138265, AW193265, AL041368, AA664535, AL887483, AW248523, AA341228, F32894, F33659, AL431303, AA542991, AL688846, AA340003, AW338869, AW008317, AL079910, AL423103, AW264973, AW407340, AA308806, AA491814, AA095511, AW406447, AL349874, AL359285, AL977743, AW022046, AA434484, AL046409, AL281903, AW419262, AW439558, AA916039, AL912322, AL914706, AL119691, T40338, AL125139, AL536555, F31799, AL963720, AL079045, AW406162, AA652057, AL246409, AL872421, AL4484148, AA649642, AL341664, AL079045, F2669639, N71930, AA362700, AL120295, AL699094, AL557323, AA299115, H71429, AW248803, F35113, AL565245, AW069807, AL343137, AL951928, AA51612, AL148446, AW275674, AL138455, AA775230, AA483034, H16048, AL038279, AL017024, AL613280, AA663306, AL693546, AL064884, AW276827, H64777, AL251002, AL042856, AA252763, AL951889, AL929531, AA610491, Z98473, AW249224, AA714453, AL299050, AL444844, AL471543, AA557686, AA344161, W07122, AL830390, AL037914, AA557879, AL038785, F32705, R72458, AA134367, AL61471, AA299601, AL648558, AL340453, AW080134, |

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|         |      |        |         |          | AW069427, AL287651, AA340960, Z78022, AC007395, AC005069, AL022396, AL049759, AC004453, AL139054, AC006017, AC005244, AC005909, AF042484, AL031665, AP000517, Z97180, AL008626, AF207550, AF011889, AB023054, AC002072, AL034551, AL049950, AC006238, AC004186, AC005520, AC005221, AC002559, AL136501, AC007870, AL035588, AC002382, AL251973, AC008975, AL008709, AL121754, AL022345, AL133371, AC006512, AF050666, AC004673, AF002223, AL080276, AP005159, AC006151, AP000088, AB023056, AL049765, AC004862, AC004829, AC002289, AF205588, AP001140, AL022170, AL121871, AC008394, AL030308, AC004025, AL034423, AL049836, AC006112, AC006381, AC000196, AL022726, AP000466, AC004381, AL021391, U95741, AP000263, AL009181, AC004955, AP000036, AL049594, AC006213, AP000100, AP000228, AC006560, AL031675, AC004984, AL117337, Z72006, AC008012, AB017652, AC002524, AC005538, AC003969, AB026898, AF130249, AC007024, AC005726, AC005233, AL035258, D87675, AC005949, Z82189, AL049696, AL035070, AB017653, AC004129, AC005008, AP000142, AC006362, Z84484, AL121838, AL049869, AL022067, AL021307, AL021918, AC007386, AL031178, AC006975, AC007051, AB014080, AP000514, AL031054, AC004206, AC005920, AL022153, AC007968, AC007567, AC005252, AC018767, AL121757, AC005023, AC005969, AC004659, AC005186, AC004901, AL022152, AC006427, AC003051, AL121652, AC005048, AL021329, Z92547, AC008163, AC006572, AL050531, AC006111, AF121898, AC007540, AL031387, AC006080, AL022333, AC007286, AC005203, AC002412, U91325, AC004861, AL024498, AL049690, AL049831, U95740, AL021407, AC005828, AL133396, AL031666, AL008721, AC003964, AC007539, AC005243, AC006376, AC007237, AF042091, AC004964, AL009172, AL121578, AC004042, AC007207, AC004911, AC004596, AC005823, Z93928, AC004878, AC007461, AC007444, AL049742, AC003041, AC004468, AC007026, AL049610, AC006389, AC004503, AC004940, AF003627, AB020875, AL031769, AC007076, AC004817, AL049775, AC007263, AL022343, AP000011, AL109627, AC006538, Z95400, AC006043, Z98304, Z82203, AC004024, AC004849, AC008071, AC004052, AL049613, AB006660, AC004966, AC002331, AC004832, AL034424, AC002316, Z98949, AC007684, AC004098, AL034548, AC012384, AF111167, AC004918, AC006529, AL049777, AC006077, AP000053, AP000168, AP000121, M87918, and AL031291. |
| HHFWL08 | 2418 | 957946 | 1 - 565 | 15 - 579 | AW103406, AL445934, AL653515, AL199816, ALA904211, H73550, N55515, ALA126005, AL247101, AD049676, AL049630, AA856961, AL278847, AL082333, Z97181, AC007371, AC007934, AC006238, AC004531, AL034402, AC005190, AL022316, AC005484, Z94721, AC004491, AF003626, AC009509, AL031277, AC004941, AC006130, AL022336, AC008041, AC005667, AL121892, AL078644, AL049872, AC005921, AC005820, AF030453, AC005015, AC005088, AC005826, AC007277, AC007308, U62317, AC005924, AL022165, AC005668, AC004664, AC004687, AL049869, AL021977, Z97054, AL022163, AL031733, AC012085, AL035458, AC004593, AC007684, AC007012, AC002112, AC004019, AL049709, AL135783,   |



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| HHWTS2 | 2419 | 858116 | 1 - 296 | 15 - 310 | AA457754, F29968, AA525753, AT178533, AL389230, AL860423, AL096935, AA581463, T71936, AA4847704, H56721, AL345146, M77974, AL634601, AL439525, AA136897, T40612, H54340, F17312, AA460367, F30933, AL345566, AW272758, AW243817, AA230025, AL610012, AA468371, AL609974, AC006312, AC002476, AL022326, AP000036, AC006441, AC005013, AC004929, AC002347, AC005914, AF196971, AP000010, U93037, AC007731, AC003049, AC005015, AC006449, AC005500, AF139813, AC004228, AF002591, AC005081, U70000, AL022163, AC007845, AP006889, AL096791, AC016025, AC006930, AC005620, AP000501, AC006538, AC006285, AC006064, AC005859, AC005520, AC006241, AC007435, AC004216, AL049869, AL031277, AC007688, AL035423, AL022302, AC007298, AC005565, AL031427, AL133448, AC004032, AL133246, AC007542, AB003151, AL106628, Z93930, AC005667, AL121638, AC007546, AL049830, AL021918, AC007376, AL031670, AC006251, AC003982, AC002300, AC004991, AL121603, AC007263, AC002312, AC007773, AC005089, AC007690, AL033521, AL021391, AL049757, AC006657, AL008710, AC004678, AP000030, AC004671, AC004827, AC008372, AL009181, AC004973, AC005102, AC004675, AL079340, AL031054, AP000049, U80017, Z99716, AC004003, AC006023, AC006211, AL121655, AC015853, AF088219, AC006511, AC005529, AC002511, AC005562, AC006013, U52112, AC002544, AP000311, AC006262, AL121653, AC004703, AC007050, AC003689, AP000045, AC008044,  |

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|         |      |        |         |          | AL043029, AL119401, AL042984, AL119341, AL042965, AL134533, AL119418, U46341, AL134536, AL119335, AL134902, AL042542, AL119399, AL119464, AL037205, AL134518, AL134525, AL042544, AL119496, AL134532, AL042975, AL142132, U46345, AL042450, AL043011, AL043019, AL042614, AL043003, AL042551, AB026436, AR054110, AR066494, AR060234, and A81671.  |
| HHEZJ38 | 2435 | 860048 | 1 - 510 | 15 - 524 | W26290.  |
| HHEZP45 | 2436 | 952047 | 1 - 187 | 15 - 201 | Z73359.  |
| HHEZP54 | 2437 | 952367 | 1 - 798 | 15 - 812 | AI806206.  |
| HHFHP14 | 2438 | 960049 | 1 - 805 | 15 - 819 | AA331084, AA381071, and AA380862.  |
| HLLAA18 | 2439 | 657314 | 1 - 579 | 15 - 593 | AA332037.  |
| HILBD61 | 2440 | 504130 | 1 - 516 | 15 - 530 | AA332188.  |
| HILCD94 | 2441 | 887182 | 1 - 809 | 15 - 823 | AI823665, AI680854, AA723790, AW195801, AW137032, AW439945, AL924857, AA687329, AA743184, AA764896, W93389, and AA33212.   |
| HJAAH06 | 2442 | 960647 | 1 - 631 | 15 - 645 | AW163254, AA314521, AA354171, AA361131, AA337563, AA354364, AA330348, and AF113538.  |
| HJAAW73 | 2443 | 530476 | 1 - 451 | 15 - 465 | AA354447, AI909885, AI940079, AI909850, and AI909873.  |
| HJAAW73 | 2444 | 530472 | 1 - 436 | 15 - 450 | AA354714, W86159, and AI440452.  |
| HJAAU52 | 2445 | 530473 | 1 - 541 | 15 - 555 | AA169182, AA354783, AA852481, AB028893, Z64482, and Z64483.  |
| HJAAU57 | 2446 | 661275 | 1 - 293 | 15 - 307 | AA354792, AA354785, H67171, AA309969, R91175, AA502207, AT743721, R76258, AC004762, AC006511, AC005747, AC004821, AC000386, AC003101, AL031259, AC004382, AC007040, AL109798, Z85987, AC004843, Z99128, U73167, U90094, AP000300, AL031848, AC007055, AC005546, AP000045, AP000113, AL035587, AF205588, AP000962, AC002306, Z84469, AC004791, and AL040591.  |
| HJAAV29 | 2447 | 669278 | 1 - 300 | 15 - 314 | AA354798.  |
| HJAAV82 | 2448 | 738993 | 1 - 669 | 15 - 683 | H38110, AA354829, and AA242784.  |
| HJAAW39 | 2449 | 530468 | 1 - 417 | 15 - 431 | AA354854.  |
| HJAAW48 | 2450 | 530641 | 1 - 391 | 15 - 405 | AA354890, F00066, AA629836, AI446336, AC005288, AC002418, AL035405, AC003684, AL049631, AC006088, AC005800, AC004814, AL133445, AC000353, AC004386, AP000493, AC004966, AC004883, AL021154, AC0034417, AC003098, AL022476, AC006449, AC006511, AC006312, AL034429, AC005229, AC004491, AC007774, AL050307, AC006501, AF111168, Z98742, Z98036, AF190465, AC006538, AC004699, AC006026, AL096701, AC004967, AF053356, AC008115, Z99716, AL050318, AC005696, AC004821, AC004812, Z98051, and Z68756. |
| HJABB37 | 2451 | 530467 | 1 - 421 | 15 - 435 | AA355113, AW068073, AA425026, and AA157625.  |
| HJABC27 | 2452 | 669059 | 1 - 367 | 15 - 381 | AA355129, AA287703, R05710, T83234, AB023172, and AF143869.  |
| HJABH14 | 2453 | 530465 | 1 - 310 | 15 - 324 | AA310688, and AA355321.  |

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| HJAB06  | 2454 | 954589 | 1 - 475 | 15 - 489 | AA309692, and AL023806.   |
| HJAB04  | 2455 | 925557 | 1 - 493 | 15 - 507 | AA309924.   |
| HJABV44 | 2456 | 871824 | 1 - 556 | 15 - 570 | AA310251, AA831330, AA302870, AA811673, AL076729, H67854, AA601376, C14014, AB869406, AL133555, Z93241, AC007308, AC006162, AC005000, AC007160, AC006115, L78833, AL049793, AC005081, AC006011, AL034548, Z97056, AC005224, AC006171, AC006318, AC004150, AL022311, AC005015, AC005632, AC006503, AC006021, AP000356, AL050312, AC005562, AC004099, AF165926, AC006211, AC002044, AL031311, AC005971, AC008012, AL031255, AC002470, AC007283, AC004106, AC004757, AC001228, AF006092, AC000133, AP000211, AP000030, AC005726, AL049829, AF196971, AC005529, AP000252, AC005305, AC002115, AC006487, AL020997, AF001548, U95990, Z93016, AL049694, Z97054, AC004686, AC005800, AC005902, AC007227, Z83844, AL096701, AL021391, AF205588, AC0010077, AL049757, Z94801, AC007350, AC004655, AC004882, AC005874, AF134471, AL031767, AL109914, AB023049, Z93023, AC007227, Z83844, AL096701, AL021391, AF205588, AC0010077, AL109839, AC007350, AL031668, AF055066, AF134726, AC002306, Z94056, AC001052, AC004659, AC004966, Z83838, AC004685, Z97989, AC005822, AC005755, U62293, Z98200, AC005722, AC004156, Z99570, AB020871, AC007664, AC007537, AC004148, Z98048, AC008018, AC007021, AL109984, AL022238, AC005049, Z83732, AC004983, AC006549, AC005538, AC007193, AP000311, AC002347, AC007057, AL133448, AL031281, Z92542, AC005057, AP000049, AL022323, AC005962, AC004910, AC006014, AL022316, AC004816, AC005011, AC004699, AC005180, AC007934, AL024507, AF030453, AC004998, AP003529, AL139054, U62317, AF037338, AC009247, AB020870, AL096791, AC005911, AF196779, AC005484, AC007684, AC004797, AL031778, AB023048, AC003110, AL031597, AL035695, AL008734, and AP000088. |
| HJABV57 | 2457 | 839528 | 1 - 661 | 15 - 675 | AA310405, A30438, L25947, U46128, L40401, AR040601, and AL133038.   |
| HJABW28 | 2458 | 958721 | 1 - 368 | 15 - 382 | AA310349, H63791, H63751, AA488729, AC004236, AC004466, and AA240375.   |
| HJABX33 | 2459 | 966611 | 1 - 425 | 15 - 439 | H64513, and AA310354.   |
| HJABY68 | 2460 | 861548 | 1 - 483 | 15 - 497 | AA310646, AA354853, AW405591, AW402676, N76224, M42680, and AL290663.   |
| HJABZ52 | 2461 | 857454 | 1 - 438 | 15 - 452 | AA310693, H83593, AA236501, AF150367, AL003563, Z61190, Z60182, and AF161557.   |
| HJACB80 | 2462 | 746411 | 1 - 545 | 15 - 559 | AI094227, W92159, AA825437, R02713, AW205546, T86217, AA885954, W86575, AA904189, W86709, F17491, AA310834, and AC008014.   |
| HJACC59 | 2463 | 534867 | 1 - 505 | 15 - 519 | AA310956, AA355111, W79349, D81026, C15076, C14389, AW377671, D80522, D59467, D80164, D59502, D81030, D80166, D80193, D80195, D80291, D59978, D59627, D80133, D59275, D80038, D80022, D80212, D59619, D80210, D80240, D59079, D80196, D51213, D80227, AA305409, D80219, D58283, D51022, D59859, C14331, AW384820, D50995, AW384832, D51423, D51799, D80253, D80251, D80043, D80045, AA305578, D51060, D80269, AA309971, D80248, C06015, D80258, D80188, D59927, D59610, D57483, D80378, D80366, T03269, D80268, AW178986, D59889, D80024, AA514188, D80439, AW177440, T11417,   |

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|---------|------|--------|---------|----------|--|
| HIACC67 | 2464 | 518222 | 1 - 343 | 15 - 357 | <p>D80241, AA514186, AW178893, D80064, D80247, C14077, D80302, D80157, AW360811, C14014, D59373, D51103, AW177501, AW177511, AW179328, AW177734, C14227, AW369651, AW178759, D80014, AW378532, D51759, AW378533, AW375405, AW360844, AW352117, D81111, AW178906, AW377676, AW179019, AW178775, D58101, T03116, D51250, AW178762, AW352158, AW366296, AW376687, D59503, AW177505, AW179020, AW375406, AW378534, AW352171, AW179332, AW377072, AW179023, AW178905, AW177731, T02974, AW178754, AW179024, AW352170, A1525923, T88593, AW360841, C14407, AW378528, D45260, AW296085, AW178909, AW177456, C14298, AW179004, F16347, C03092, AW178907, AW178908, AW179018, AW178911, AW378540, AW352120, A1557751, A4809122, H67854, H67866, AW179017, AW378539, AW179009, AW179012, AW178980, D59695, AW177733, A1525917, AW360834, AA380490, D80168, AW367950, AW178914, AW178774, AW1778543, D59317, A1905856, D59551, AW178911, AW378525, A1535686, D58246, D52291, AW179013, D80228, C14973, C14344, A151221, AW178781, AW352163, A1557774, D59474, A1525920, AW177728, AA514184, Z30160, T03048, A1525227, Z21582, C05763, D80949, A1525242, A1535959, C14046, H67858, A1525925, A1525235, A1525215, D51079, D45273, C13958, A1525912, AA285331, AW378542, A1525903, D31458, C16955, T02868, Z34542, A1525237, AF058696, A84916, A1132110, A62300, A62298, AR018138, AR008278, A82595, AF036905, AF028859, AR060385, AF036906, A1723280, AB002449, X67155, Y17188, D26022, A25909, I50126, I50132, I50128, I50133, Y12774, A67220, D89785, A78862, D34614, A45456, AR060138, AR016514, I62448, D88547, A26615, A6052274, I14842, A94995, AR066488, T09669, A43192, A43190, AR038669, AR008443, AR066487, X82626, A30438, AR025207, AR054175, Y17187, D50010, A63261, AR008277, AR008281, AR008408, AR062872, A70867, AR016691, Y17189, U46128, T79511, A64136, A68321, AR060133, D13509, X68127, and AFI23263.</p> <p>AA309853, C14014, D59859, D59889, C15076, D51423, D80253, D59467, H67854, D80166, D80212, D51799, D59619, D80210, D80240, D57483, D80164, D80024, D58283, D80188, D80195, D59275, D80219, D81030, D80391, D80043, D80227, D59502, D80366, D80196, D80022, D59927, D59610, D80038, D80269, D80193, AA305409, D59787, C14331, D50979, C14429, D50995, D80241, C14389, T03269, D80378, D80045, D51060, C75259, D80134, AW377671, AW178993, A913895, D80268, AW378532, A1114875, D80251, D52291, AW369651, D51022, AW178773, D51250, D58253, W89152, D59695, D80949, F13647, AW179328, C14298, AW352138, D80064, D51079, AW177440, Z21582, AA305578, D80168, D81026, D80248, AA594198, C14407, AW378540, D80522, AW178762, AA745570, AA514188, AW177501, AW177511, AW352117, AA514186, D80133, AW360811, A1905856, A51097, H67866, AW375405, AW360844, D80132, R84431, D88547, A62298, A84916, A62300, AJ132110, AR018138, X67155, Y17188, A67220, D89785, A78862, D26022, A25909, D34614, AL049795, AF181897, AF068862, AC004612, AF049895, AC002070, I82448, AR008278, AF058696, AC004922, AC002350, AR025207, AL022319, AC004477, X83626, AL021026,</p> |
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|         |      |        |         | AB028859, AC007790, AC007227, AC005912, U95739, AB004907, U91319, AC006077, AC000004, AL121852, AC004253, and AC006026.  |
| HJACE47 | 2465 | 589114 | 1 - 298 | AA311100, and AA355655.  |
| HJACE79 | 2466 | 666768 | 1 - 461 | AA311091, AA354762, S68283, D80043, D80268, C14389, D80188, D57483, D80022, D80166, D80253, D80195, D80391, D51423, D59619, D81030, D59859, D80210, D51799, D80240, D80196, D80212, D80227, D50979, D59502, D59927, D80219, D59275, D50995, D59889, D80038, D80193, D80269, D59787, D59610, D80366, D51060, D80024, D80164, D80241, D80322, D59467, D80378, C15076, D80045, D81026, AW177440, AW177501, AW177511, C14014, AW377671, AA305578, C14331, AW352117, AA514188, AA514186, AA305409, D51022, D80248, T03269, AW178893, AW352120, D80247, AW360811, D80251, D80133, AW179328, T03116, D58253, AW375405, AW360844, AW378532, AW178906, AW179024, AW177505, AW178775, D80132, AW366296, D51213, AW360817, D51250, D80302, AW375406, T11417, AW352138, AW378534, AW352171, AW178762, AW179332, AW377672, AW352170, AW360841, AW179023, AW178905, D80439, D80134, F13647, AW178754, AW177731, AW179018, AW178971, AW179004, D51079, D59627, D80168, AW178781, AW179017, D80014, AW178980, AW179329, C14227, AW179012, AW352174, D81111, AW177733, AW378528, AW178908, D51103, AW367967, C06015, AW178774, AW378540, Z21582, AW178983, D51759, C14407, AW179009, AW178914, AW378543, AW378525, C14298, D80064, A905836, AW352163, AW178911, AW177728, T48393, D58246, D59503, AA285331, AA809122, T02974, AW360834, AW178986, D58101, D45260, D80258, AW177734, C03092, H67866, AW367950, A1525923, A1527751, AW369651, H67854, D60010, AW378533, AW378539, D51097, D59474, C14344, D43273, D51231, A1525917, D59317, AW179013, AW178759, C14973, T03048, A1525227, D51221, C14046, A1525920, AA514184, A1557774, A1535961, A1535686, C16955, H67858, D59551, Z33452, Z30160, A1525912, A1525235, A1523242, AW378542, A1525925, A1525927, A1523215, C05763, A1031005, A62300, A1132110, A84916, A62298, AR018138, AR028859, AR058696, AR008278, X67155, Y17188, D26022, A25909, A67220, D89785, A78862, D34614, Y12724, A82595, D88547, A94995, A8002449, AR003383, X82626, AR016808, AR008443, AR025207, I50126, I50132, I50128, I50133, AR060138, AR060488, AR016514, A45456, A26615, AR052274, AR060490, Y09669, A43192, A43190, AR038669, AR066487, I18367, AR054175, A30438, X68127, I14842, A8012117, D50010, Y17187, A63261, A70807, AR008277, AR008281, AR008408, A85396, D88507, AR066482, A44171, AR062872, A85477, AR016691, AR016690, U46128, I19525, A60792, X93549, D13509, A64136, A68321, AR060133, T95111, AF123263, and AR008382. |
| HJACE74 | 2467 | 659329 | 1 - 635 | AA311125.  |
| HJACE47 | 2468 | 507156 | 1 - 910 | W94499, AA311178, AA508770, A176314, and A1117328.   |
| HJACH86 | 2469 | 784634 | 1 - 258 | AA311347, and AC002310.  |

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| HIADD60  | 2470 | 708664 | 1 - 321 | 15 - 335 | AA713522, AA687156, AA459001, AA250811, and Z98046.   |
| HIBAB01  | 2471 | 961088 | 1 - 292 | 15 - 306 | AA355427.   |
| HIBABD34 | 2472 | 508225 | 1 - 121 | 15 - 135 | AA355455, AA355516, and AC005156.   |
| HIBAG75  | 2473 | 523069 | 1 - 266 | 15 - 280 | AA355499.   |
| HIBAT26  | 2474 | 522697 | 1 - 269 | 15 - 283 | AA356012, AI969579, AA913841, AA846697, AI224479, AA505890, AI360528, and AA765212.   |
| HIBAX43  | 2475 | 929793 | 1 - 290 | 15 - 304 | AA356074, and AC000665.   |
| HIBBD13  | 2476 | 765075 | 1 - 198 | 15 - 212 | AA356340.   |
| HIBCT43  | 2477 | 574259 | 1 - 414 | 15 - 428 | AA306860, AA312440, AI478642, D59627, D80168, D59695, D52291, T03048, D45273, D51213, CI6955, CI5076, D59275, CI4298, AA305578, D80251, D80949, D51799, D51079, D80269, D57483, D59467, D80227, D80366, D59889, D80223, D81030, D80164, D50979, D59610, D80024, D80212, D80195, D80196, D80188, D80219, D59502, CI4331, CI4407, D80045, D50995, AV360780, D58283, D51022, D59859, D80022, AA305409, D80166, D51423, D59619, D80210, D80391, D80240, D80043, D59787, D80064, D80038, D80378, D81026, D80241, D80193, D59927, D80228, CI4227, AA514188, D81111, Z33452, D80258, D59503, D80014, D58246, D58101, D80133, AI535686, D51060, AI557774, D80248, TI1417, AV377669, D52059, T02974, F13647, CI4014, D80522, Z21382, Z30160, C06015, CI4077, AA341486, AW377661, H67854, H67866, D59531, D80268, AI525216, AI525228, N66429, AI577751, D60214, D80302, AA809122, AI525969, D59317, CI4344, D80439, C03092, D80157, CI3938, CI4973, D59474, T03116, D80247, C04682, T02868, AI525978, D51103, AA514184, AI525238, D51759, D51221, AI525242, AI525903, AI525923, CI4002, AI525920, H67858, D31458, AI525277, D45260, C05763, AI525237, AI525235, AI525912, AI525215, AI535961, AA305720, AI525917, AC003682, AJ132110, A84916, AR016808, AB028859, X64588, A62300, A62298, AR018138, AR008278, AB010386, AF058696, I79511, AR060385, AB019242, U37689, I81198, AB002449, I14842, A82595, A47134, AR054175, AR008277, AR008281, AR060382, and Z82032. |
| HIBDB28  | 2478 | 839067 | 1 - 199 | 15 - 213 | AA306609.   |
| HIBDG57  | 2479 | 750669 | 1 - 454 | 15 - 468 | AA306410, AW245824, AA313296, AA306336, AW245551, AA304936, AI525315, AA355857, AA382974, AA313343, AA158977, AA306010, AA158998, AA312340, AA341482, AW403283, AA355541, AJ010058, Y18418, AF099084, AF070735, AB012122, AF100694, AB001581, and AB002406.   |
| HIBDL14  | 2480 | 960109 | 1 - 565 | 15 - 579 | AA306649, N76633, Z40822, and Z07989.   |
| HIBKSR6  | 2481 | 523007 | 1 - 336 | 15 - 350 | AA356898.   |
| HIPAH35  | 2482 | 509162 | 1 - 312 | 15 - 326 | Z25932, and Z25922.   |
| HIPAX151 | 2483 | 730875 | 1 - 335 | 15 - 349 | AI940546, AI859744, AI459866, AI671077, AW236342, AA372106, AW265654, AA024517, AW440976, F23274, F48826, AW406162, F34511, AA614010, AI291124, AI079869, AA634855,   |
| HKBAC12  | 2484 | 857298 | 1 - 743 | 15 - 757 |   |

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| AI291268, N54179, AA025083, A1537030, AA663482, AA501600, F33121, AA626678, AA834799, AW188484, AA127486, AA318652, AI205126, AA327572, AI282310, AI886365, AL041706, AA666059, AA054106, AA077817, AA372881, W32993, AA515224, AA715606, AA987962, AA593060, AI301273, H64777, AI287485, T40077, AA347927, W47444, AA654322, AA381747, AA520416, AI341548, AI039451, N43757, AI331164, H43183, N39611, AA528441, AA180964, AA215929, H04867, AI190960, AI718446, AI815583, AA656700, AI678392, AA586655, AI110770, AA347930, AA501199, AL041368, AA661103, AI816537, AI330440, AI282832, AA351845, AA504951, AI921649, AI635274, AA723017, AI1338065, AI700353, AI376100, D29019, AA745410, AI049649, AI865905, AI921296, AW029038, AI072861, AA533408, AI862050, AI356904, AI732162, AI564284, AI499094, AI802526, AI873916, AI821172, AI982634, AI370475, AI049722, U34879, AF207550, AC005071, AC006241, AI035071, AC004659, U91326, AP000255, AC007057, Z99943, AL049872, Z85987, AC005358, Z93017, AL049793, AC004815, AC006557, AL008629, AP000213, AL022326, Z83322, AP000135, AC007191, AL031428, AC004106, AD000092, AL021937, AP000111, AL049757, AC004922, AC002404, AF010238, AL033518, AC009247, Z54334, AC006611, AC005037, AC005041, AC005144, AL049776, AC005932, AL022238, AL022163, Z92542, AC007263, AC004526, AC005570, D87012, AC004834, AL031662, AL073284, AC005543, AC006571, Y11107, AL035072, AC005066, AL009181, AL035405, AC005695, AC003101, AC004823, AC004130, AL049636, AC005940, AL031668, AC007055, AC004941, AP000553, AC002350, AC005328, AC005988, AC004801, U47924, AC005542, AC005789, AC008040, AC005527, AL022302, AC005696, AC002310, AC016025, AC005564, AF196970, AC002455, AC005565, AC005049, AC006965, AL050338, AC005759, Z93930, AL078581, Z84721, AC003043, AL034553, AC005666, AC007226, AC005193, AC004821, AC005529, AC007666, AC002096, AL022158, AP000517, Z93241, AC005944, AF002993, AC005740, AC002073, AC000353, AC002431, AP000555, AC004224, AC004802, AC004647, AC004841, AL133382, AP001054, AP000504, AP000275, AC006076, AC006050, AC002425, AL132987, AL023575, AL049869, L05367, AC004996, AC006285, AC004915, AL031295, AL133297, AC005261, AL021154, AL034429, AB008681, AP000134, AP000212, AP000030, AC004771, AL035422, AC005225, AL022313, AL035587, D88268, AC005015, AF000350, AC000003, AC004777, AB023054, AP000105, AP000037, AP000045, AP000113, AF165926, L39891, AF095901, AC004638, AL008715, AC006942, AC005412, U95742, AC007421, AF108083, AC004671, AL121707, AC005081, AL031846, AL096701, AC005153, AC006597, AP000349, AC004671, AL133448, AC005089, AC005682, AP000556, AC007151, AC005899, AF196971, AF118808, AC007216, AC004531, Z83836, AP000509, AC004890, AC005764, Z95116, Z69651, AC006048, AC006064, AC005353, AL031848, AL035420, AC005874, AF134471, AC007436, U91321, AC006538, AC002115, AC009946, AL035423, Z97989, AL109627, Z82211, Z98883, AF181896, D16561, |  |  |  |
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| HKBA043 | 2485 | 934251 | 1-44  | 15-58  |
| HKBA127 | 2486 | 963724 | 1-766 | 15-780   |
| HLADA25 | 2487 | 791845 | 1-428 | 15-442   |
| HLADA89 | 2488 | 786490 | 1-471 | 15-485   |
| HLCD878 | 2489 | 760896 | 1-374 | 15-388   |
| HLA021  | 2490 | 531287 | 1-95  | 15-109   |
| HLDB91  | 2491 | 787578 | 1-109 | 15-123   |
| HLDB22  | 2492 | 766876 | 1-837 | 15-831   |
| HLKDC49 | 2493 | 722400 | 1-783 | 15-797   |
| HLICD11 | 2494 | 967337 | 1-322 | 15-336   |
| HLMAC43 | 2495 | 799766 | 1-368 | 15-382   |
| HLMAE45 | 2496 | 783886 | 1-309 | 15-323   |
| HLMAE62 | 2497 | 796676 | 1-163 | 15-177   |
| HLMAE83 | 2498 | 530107 | 1-297 | 15-311   |
| HLMAH45 | 2499 | 954125 | 1-532 | 15-546   |
| HLMAH60 | 2500 | 856858 | 1-108 | 15-122   |
| HLMAJ54 | 2501 | 811183 | 1-362 | 15-376   |
|         |      |        |       | AL04096, H04118, AL085270, AL348611, H03415, H03398, H87153, AL184354, and AW382616.   |
|         |      |        |       | AL072605, AL825634, AL291745, AL281084, AA836598, AL01258, AW207800, AL468330, AL559377, AL423842, AW138405, AA598529, AA428226, AW137882, AW149486, AL277002, AW135764, AL630822, AL802000, AW002794, AA746502, AL479965, AW207230, AL436232, AL299005, AL92316, AL277010, AL805270, AL819704, AA477763, AL333133, AL091828, AL018332, AL369454, N95248, AW134617, AL017173, AA535795, AW274817, AL137677, AW203971, AA293668, AW140143, AL970870, AW184019, AA526926, AA831623, AL589653, AA745853, AL670914, AL468159, AL21290, AA304437, AW139897, H97046, AA724268, AL247557, AA737067, AL293000, AA706959, N78408, AL007887, and AC007041. |
| HLMAJ84 | 2502 | 615300 | 1-296 | 15-310   |
| HLMAN25 | 2503 | 677519 | 1-153 | 15-167   |
| HLMAU11 | 2504 | 954571 | 1-286 | 15-300   |
| HLMAU43 | 2505 | 856884 | 1-136 | 15-150   |
| HLMAU70 | 2506 | 732665 | 1-388 | 15-402   |
| HLMAV62 | 2507 | 671905 | 1-126 | 15-140   |
| HLMAZ06 | 2508 | 960557 | 1-428 | 15-442   |
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|         |      |        |       | AA262581, H17920, AL479768, AA810033, AL440530, AA384862, CL5362, AL110760,  |

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|         |      |        |         | 15 - 263 |  | AB21467, AL694977, AA230143, AC006480, Z83838, Z81370, AL022324, AC007227.   |
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|         |      |        |         |          |  | Z97352.  |
| HLMAZ91 | 2511 | 920216 | 1 - 239 | 15 - 253 |  | AA012851, H86413, AA019024, and H86637.  |
| HLMBB25 | 2512 | 792549 | 1 - 242 | 15 - 256 |  | AC020663.  |
| HLMBB43 | 2513 | 530611 | 1 - 343 | 15 - 357 |  |  |
| HLMBB56 | 2514 | 968209 | 1 - 366 | 15 - 380 |  |  |
| HLMBB77 | 2515 | 799744 | 1 - 331 | 15 - 345 |  | AA219006, F08248, A053911, A9133714, AW149213, AA846876, A056177, AA297666, A1537772, A1494539, A870197, A1636730, AA410788, C15060, AL037632, AA838190, F12561, N35602, AA127426, AW020088, T07039, AA308716, AA584378, AA621381, A1524360, AA961035, AA588001, AW148507, AA541423, AA213959, AA515457, AW275519, AA475911, AA580088, AA828042, AA747778, AL045808, AL046156, A1791913, AA501699, AW341978, A1792133, A1821714, AW149156, H07953, AW419262, AA630672, A1133297, A1797906, AW270343, H711429, AA954924, AA829036, A1B44995, A1B11276, AA493975, AA478355, A1925579, AA508359, T92321, AW235497, A1499588, AA878409, AL138182, A1827475, AA487621, T74524, A1311927, AL079645, AA493708, AA714276, AA612322, A1223700, AA428778, AA488746, AW023865, AA827231, AW274349, A1687343, F13808, AW378532, AA457070, AA086368, AA663461, AA326139, AA484267, AA372481, AA659360, AA503119, AA436774, AW303196, AA828749, A1688410, AL042977, AA502991, AA745507, A1250281, A17179305, A1282511, A1341571, H73550, AA436782, AA456578, AA522642, AA903253, A1873990, AA469400, A1284640, A1754567, AL035847, A1755214, AA827215, AA4355379, AA4847702, A157013, AA658362, AA309257, A1745151, A1451240, A112071, AA380354, A1619436, AA515905, AL046409, AA683082, AL041373, AW408729, AA378690, AA308809, AA745406, A1821785, AA446657, A18914, AA833896, AA533463, AA833875, AA767963, AA508104, AA371482, AA557883, AL036037, AA469451, AA207033, A1796064, AA564865, AL041526, A1678368, AA526856, AA501852, A1791150, AW301330, A1818231, AA463590, AW020340, A1720058, A1040342, A1715814, N23504, A172999, A173856, AA732253, AA749235, A1610219, A1678785, AL048925, AW022655, AA568754, A1292257, A1377161, A1345891, AA788901, AA644090, AA531079, R89542, AA620467, AA630860, AA581123, AA502860, AW259095, A1149478, F25733, A1726277, A1281881, AA846907, A130962, A18029885, U62317, A1800211, A1800133, AC006213, AC005778, AC006144, AC007298, |

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| AA548350, and AL035209.   |  |  |  |  |
| AA287609, AW305191, and AA309915.   |  |  |  |  |
| AL035413.   |  |  |  |  |
| AA383383, and AC009509.   |  |  |  |  |
| HLMBB80 2516 950730 1 - 355 15 - 369  |  |  |  |  |
| HLMBB68 2517 735614 1 - 551 15 - 565  |  |  |  |  |
| HLMBB04 2518 615621 1 - 430 15 - 444  |  |  |  |  |
| HLMBQ77 2519 954969 1 - 726 15 - 740  |  |  |  |  |
| HLMBB04 2520 577608 1 - 228 15 - 242  |  |  |  |  |
| HLMBB02 2521 799755 1 - 331 15 - 345  |  |  |  |  |
| HLMBV11 2522 967669 1 - 442 15 - 456  |  |  |  |  |

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| HLMBV24 | 2524 | 825595 | 1 - 232 | AC007106, AC012085, Z78022, AF017732, Z95124, AC002554, AL050348, AC004912, AC004049, Z99716, AC002044, AC009721, AL049835, Z78021, AL008629, Z82900, Z98884, AJ010598, AC006002, AC005323, AL035696, AF222685, AC004908, AL031670, AC005728, AC006432, AC0060515, AF000115, Z95327, AC004984, AP000455, Z97198, AL096707, AL009051, AC009233, AC004020, AL078644, AC005969, AC004866, AC006383, AL022328, AC002451, AF070718, AC004547, AL023578, AC009891, AF003627, AC004384, AL033525, AL031116, AC006565, U91327, AC003216, Z83843, AC005029, AL031785, AC007065, AC006029, AC004531, AC006367, AL133512, AC009405, AC007671, Z98941, AC005993, AC008703, AC004930, AL031285, AL035079, AL121757, AC021092, AL035604, AF001905, AC000119, Y18000, AC000120, AC004035, AP000081, AC008067, Z93928, AL117258, AC008015, AC007340, AC007687, AC004199, AC005532, AP000704, and AC008109. |
| HLMBV24 | 2524 | 825595 | 1 - 232 |  |
| HLMBV72 | 2525 | 688069 | 1 - 295 | AW009940, AL394293, AL082857, AA227673, AW207417, AA491391, N99896, AA491389, AA227560, AL000839, AA361942, and AF156884.  |
| HLMBW11 | 2526 | 950728 | 1 - 925 |  |
| HLMBX06 | 2527 | 954576 | 1 - 397 | AW409578.  |
| HLMBX19 | 2528 | 879667 | 1 - 233 | AC007539.  |
| HLMBY16 | 2529 | 531053 | 1 - 193 |  |
| HLMBZ31 | 2530 | 967640 | 1 - 270 |  |
| HLMBZ47 | 2531 | 577605 | 1 - 348 | AC003070, and AL135783.  |
| HLMBZ73 | 2532 | 531401 | 1 - 209 |  |
| HLMCA13 | 2533 | 790952 | 1 - 398 | R61738, AL117647, AB023195, and AL117518.  |
| HLMCA22 | 2534 | 529185 | 1 - 257 |  |
| HLMCI32 | 2535 | 799767 | 1 - 337 |  |
| HLMCI64 | 2536 | 739397 | 1 - 314 | AA719251, and AC005839.  |
| HLMCI66 | 2537 | 707231 | 1 - 83  |  |
| HLMCK45 | 2538 | 698342 | 1 - 268 |  |
| HLMCI50 | 2539 | 921041 | 1 - 179 |  |
| HLMCI93 | 2540 | 799699 | 1 - 620 | AA192733.  |
| HLMCT06 | 2541 | 954615 | 1 - 378 | AC005696, AC006536, AC004500, AC004589, AL096773, AC007023, AC007057, and AL132712.  |
| HLMCT15 | 2542 | 507212 | 1 - 244 |  |
| HLMCT24 | 2543 | 921543 | 1 - 231 | AL035086.  |
| HLMCT79 | 2544 | 916590 | 1 - 344 | AW268314, AA767276, AL032114, F18098, AC007993, AC008085, AC006543, AC006544, AC005697, AC004686, AC005632, AC005730, AP000152, AP000011, AC009542, AC009330, AC005606, Z83840, AC002094, U91319, AC016026, AL023096, and AC002454.  |

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|---------|------|--------|-------|--------|--|
| HLMDP39 | 2545 | 883976 | 1-336 | 15-350 | AA312110, T62666, H06759, W37108, W40387, AL620464, AL911142, R12100, W76480, W45377, Z45518, AA313589, and AFI90465.  |
| HLMDP76 | 2546 | 529184 | 1-92  | 15-106 | AA3131317, AW250536, AA456441, AA301053, AA301052, and D83782.   |
| HLMDP04 | 2547 | 694910 | 1-53  | 15-67  | Z83844.  |
| HLMDP14 | 2548 | 799739 | 1-369 | 15-383 | R89560, AA377323, H73561, AA535059, N70472, AA223510, R34070, AA298647, AA458573, AL683547, AA252028, AA063115, AW151247, N63897, T07878, AL889108, AL0966343, AL632447, AA559241, N71619, AA502571, H62923, T03576, AA669711, AL024498, AL021707, AC005971, AC004491, AL022721, AC003080, Z85987, AC004967, AL022313, AC007421, U91323, AC006153, AC006014, AC005231, AC005089, Z84480, AC007226, AC005488, AL135474, AP000113, AC006088, AF047825, AC005081, AL022165, Z94801, AC007612, AC004955, AC004890, Z83844, AC007725, AL022320, AC004963, AC004893, AC006216, AC004938, AC005920, 297630, AC006241, AF124523, AC0040223, AC008040, U91326, AC004979, Z98044, AL035413, AC002663, AC005071, Z98051, AC007676, AL096701, Z98742, AC005957, AP00359, AC005184, AC002404, AB023049, Z98586, AC004000, AC002395, AF001549, AC005342, Z84487, Z99716, AC004839, AC007546, AF000557, AC002344, AL031311, AC005288, AL031289, AC005808, AC004895, AL023575, AC002470, AC004216, AC006285, AC004999, AL109627, Z86090, AC003029, AP000692, Z92542, AF031078, AC004841, AC005102, AC003043, AC002314, AC006077, AP000556, AL034423, AC006538, AC004883, AL022311, AL008718, AC005305, AC002094, AF030876, AC005412, AC005409, AC006160, AL034420, AF111168, AF001548, AB003154, AC007551, AL035415, AC004167, AP000689, AC005015, AC005632, AC005520, Z93023, AL050372, AC008372, U78027, AC005659, AFI65926, AC005914, U07563, AL034429, AL050341, AC007182, Z98200. |
| HLMDP37 | 2552 | 577239 | 1-418 | 15-432 |  |
| HLMDH48 | 2553 | 720893 | 1-342 | 15-356 |  |
| HLMDN83 | 2554 | 709942 | 1-340 | 15-354 |  |
| HLMDO02 | 2555 | 920859 | 1-235 | 15-249 |  |
| HLMDO18 | 2556 | 527896 | 1-136 | 15-150 |  |
| HLMDO61 | 2557 | 584982 | 1-141 | 15-155 |  |
| HLMDO65 | 2558 | 742749 | 1-456 | 15-470 |  |
| HLMDP35 | 2559 | 535500 | 1-247 | 15-261 |  |
| HLMDQ37 | 2560 | 531232 | 1-126 | 15-140 |  |
| HLMDQ40 | 2561 | 531234 | 1-188 | 15-202 |  |
| HLMDQ60 | 2562 | 920837 | 1-368 | 15-382 |  |

|         |      |        |       |        |   |
|---------|------|--------|-------|--------|---|
|         |      |        |       |        | AC005229, AF196779, AC006312, AC005907, AL031295, AC003663, U62293, AC009248, AL049760, AL022316, AC002312, AC002517, AC002350, AL133371, AC004383, AC004099, AC005095, AL031281, U82828, AC006050, L78810, AL035667, AP000512, Z95114, U95743, AF109907, AC006039, AL022476, AC007338, Z83840, AC002347, AC006468, AL132712, AC002316, AL035422, AC007690, AC003899, AC000159, AC007051, Z97181, AL031846, AL109952, AC007450, AC016027, AL109628, AC006111, AC005225, AC002563, AC005696, AC005736, and AB014078.   |
| HLMDR16 | 2563 | 530103 | 1-113 | 15-127 |   |
| HLMDR33 | 2564 | 959707 | 1-416 | 15-430 |   |
| HLMDR70 | 2565 | 531235 | 1-94  | 15-108 |   |
| HLMDT17 | 2566 | 531231 | 1-210 | 15-224 | AL050337.   |
| HLMDJ04 | 2567 | 571393 | 1-281 | 15-295 |   |
| HLMDJ07 | 2568 | 930471 | 1-456 | 15-470 | AI654933.   |
| HLMDU17 | 2569 | 528040 | 1-219 | 15-233 | AL080243.   |
| HLMDU43 | 2570 | 575607 | 1-359 | 15-373 |   |
| HLMDU54 | 2571 | 856877 | 1-320 | 15-334 | AI337315, AL492017, AI565658, AI565657, AI651781, AI591214, AI565667, and AL022316.   |
| HLMDU71 | 2572 | 531228 | 1-316 | 15-330 | Z74023, and AF172244.   |
| HLMDU96 | 2573 | 799729 | 1-309 | 15-323 |   |
| HLMDV96 | 2574 | 934543 | 1-813 | 15-827 |   |
| HLMDV28 | 2575 | 531230 | 1-293 | 15-307 | AI824014, and T79467.   |
| HLMDW58 | 2576 | 799749 | 1-282 | 15-296 |   |
| HLMDX46 | 2577 | 523771 | 1-306 | 15-320 |   |
| HLMDX59 | 2578 | 739523 | 1-404 | 15-418 |   |
|         |      |        |       |        | AA666254, R96738, R35404, AI571161, AA584484, AA740297, AA657778, AW089952, AA297844, C05714, H60313, AA587995, AI266003, H51835, H58666, N80546, AI682665, AI382324, T61514, AL118980, AI866056, F00818, AW079664, AI814739, AA603530, AA826081, AA515457, AI865807, AW068316, AA608751, AI872513, R07267, AA639946, AI289941, AI289942, AI955697, AA693484, AL049273, AI135744, AC003109, AC006238, AJ246003, AC007537, AC005736, AC005520, AL049757, AC005015, AC007057, AL049872, AJ010598, AL031291, AC006480, U91325, Z81314, AF187320, AL049748, AL034429, AC005710, AC007899, AF121781, AL121658, AL031670, D86995, AC002430, AC016025, AL031154, AL035249, AC007384, Z97056, AP000269, AP000032, AP000103, AC006964, AC005368, AC006088, AC007731, AC005971, AC005500, AC006026, AL050348, AC005859, AL020997, AC005914, AC006449, AC002311, AC002369, AP000347, AC002470, AC005513, AL023694, AL133448, AL020993, AL031803, Z94057, Z85986, AF047825, AC004383, AC005059, U91321, AL121655, AP000558, AC006080, AC001228, AF001549, AF111168, AP000350, U62293, AL031281, AL109827, AC007327, AC007308, AC005820, Z98941, |

|         |      |        |         |          |   |
|---------|------|--------|---------|----------|---|
| HLMDX71 | 2579 | 799758 | 1 - 356 | 15 - 370 | AC005605, AC007546, AF0001550, AL0008582, AL022165, AC006112, AC000134, AC0004228, Z84880, AC002477, AF0005555, AC005839, AC008553, AB023048, AC002492, AC007686, AC002549, AC004882, Z97053, AL096763, AC007845, AC003682, AC008149, AL031659, AC004531, AC007766, AC006359, AL049745, AL096791, AC004876, AL031311, AC002045, AC005730, AC009516, AL127163, AC005826, AL109627, AL096701, Z97630, AL022726, AL031431, AL049539, AC004896, AC006441, AL035086, AC005829, AC003043, AC002472, AF196779, AL023553, AC004782, AC005412, AC006130, AL020297, Z86090, AC005899, AC006430, Z69715, AC007999, AC007372, AC004821, AF207550, AC005195, AF000348, AC008984, AC005225, AL080242, AC006930, AC004598, AC005377, AL049837, Z46936, AC000355, AC005529, AC004929, U47924, AJ003147, AC005295, AC005531, U85195, AP000134, AL109758, AL050318, AC004643, Z69713, Z83841, AL049843, AF000658, AC004386, AL031685, AC002407, AC004686, AC005969, AC002316, Z93930, AB023051, AL021578, AC005363, AC005519, Z70289, AC007096, AC006077, AC003006, Z98885, U07563, AL035443, AL109963, AC007262, AC004253, AC002133, and AC003101. |
| HLMDY24 | 2580 | 531219 | 1 - 408 | 15 - 422 | AA0326841, and AL080172.  |
| HLMDY48 | 2581 | 666518 | 1 - 118 | 15 - 132 | AC002400.   |
| HLMDY56 | 2582 | 518410 | 1 - 92  | 15 - 106 |   |
| HLMPA56 | 2583 | 730947 | 1 - 285 | 15 - 299 | AC002299.   |
| HLMPA72 | 2584 | 531359 | 1 - 316 | 15 - 330 |   |
| HLMPB58 | 2585 | 577643 | 1 - 352 | 15 - 366 |   |
| HLMPD75 | 2586 | 799682 | 1 - 524 | 15 - 538 |   |
| HLMPG58 | 2587 | 573130 | 1 - 344 | 15 - 358 |   |
| HLMPG66 | 2588 | 676040 | 1 - 435 | 15 - 449 |   |
| HLMPH74 | 2589 | 671941 | 1 - 423 | 15 - 437 |   |
| HLMPH89 | 2590 | 526929 | 1 - 185 | 15 - 199 |   |
| HLMPK45 | 2591 | 531222 | 1 - 253 | 15 - 267 | AA305578, AW366296, AW375405, AW177440, Z98559, AW360811, D81030, AW377671, AA305409, AW178893, AB08586, D80314, C14389, AW178906, AW179328, C14331, D80166, AW378534, AW179332, Z82823, AW377672, AW179023, AW178905, D80022, C14331, D80166, D80195, D80193, D59927, Z59467, D51423, D59619, D80210, D51799, D80391, D80164, D59275, D80249, D80253, D80043, D59787, D80227, D59592, AA514186, AW378532, T03469, D81026, D80269, C14014, D80212, D80366, D51060, D80196, D80188, D51022, D80248, D50979, D80219, D80522, D50995, AW332170, AW378528, AW178762, D80268, D80038, C15076, AW377676, AW352171, D57483, A535850, AW177731, D80439, Z98889, D80133, AW178907, D80045, AW179019, AW179024, D80247, AA514188, D80302, T48593, AW367967,   |
| HLMPK63 | 2592 | 888660 | 1 - 574 | 15 - 588 |   |



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|         |      |        |         | AW179020, AW178775, AW178980, AW177733, AW178908, D80132, D80134, D51097, D58233, D51103, AR008278, D88547, Y12724, X85626, A84916, A67220, D89785, A62300, A62298, Y17188, AB028859, A78862, D34614, A94995, D26022, A132110, AR018138, X67155, AF058696, A25909, AR008443, I50126, I50132, I50128, I50133, AR066488, AR025207, A82595, AR016514, D50010, D13509, AR060138, A45456, I18367, A26615, AR052274, Y09669, AR060385, AB002449, AR066487, AB012117, A43192, A43190, AR038669, A30438, AR008408, AR066490, and AR060133.                      |
| HLMPF70 | 2593 | 856861 | 1 - 187 | 15 - 201  |
| HLMPF92 | 2594 | 571369 | 1 - 361 | 15 - 375  |
| HLMF171 | 2595 | 526928 | 1 - 354 | 15 - 368  |
| HLMFN24 | 2596 | 781780 | 1 - 313 | 15 - 327  |
| HLMFN68 | 2597 | 799751 | 1 - 392 | 15 - 406  |
| HLMFN49 | 2598 | 842045 | 1 - 165 | 15 - 179  |
| HLMPF72 | 2599 | 799709 | 1 - 356 | 15 - 370  |
| HLMFU09 | 2600 | 909666 | 1 - 372 | 15 - 386  |
| HLMFU13 | 2601 | 657283 | 1 - 289 | 15 - 303  |
| HLMFU39 | 2602 | 856872 | 1 - 326 | 15 - 340  |
| HLMFU52 | 2603 | 727197 | 1 - 319 | 15 - 333  |
| HLMFU90 | 2604 | 699667 | 1 - 323 | 15 - 337  |
| HLMPW19 | 2605 | 534799 | 1 - 302 | 15 - 316  |
| HLMPK40 | 2606 | 531355 | 1 - 337 | 15 - 351  |
| HLMPK50 | 2607 | 927675 | 1 - 289 | 15 - 303  |
| HLMPG66 | 2608 | 799725 | 1 - 326 | 15 - 340  |
| HLMPG96 | 2609 | 531225 | 1 - 167 | 15 - 181  |
| HLMGY13 | 2610 | 921457 | 1 - 280 | 15 - 294  |
|         |      |        |         | R98835, N52276, AA163533, AA583579, AA730488, AW085542, AA583568, AW270429, AA682889, AW270351, AI360504, AA052973, W42587, AL036070, AA332542, AW051819, F48413, AA363003, AL048275, T40550, R00564, T39390, AA470567, C15362, T30418, A1268019, N72170, P95840, AC005081, AC005015, AC007114, AL031259, AC007200, AC007687, AL136168, AC000120, AC005920, AL109809, AL132987, AC007225, AL008718, U95739, AF029308, AC004750, Z93390, Z83840, AC002466, AL022313, AC002312, AC007051, AC005089, AC007919, AL049780, AC007055, AC005180, and AC005924. |
|         |      |        |         | AA205292, and AC005180.   |
|         |      |        |         | AA938180.   |
|         |      |        |         | AL022331.   |
| HLMG709 | 2611 | 625638 | 1 - 290 | 15 - 304  |
| HLMG723 | 2612 | 805813 | 1 - 295 | 15 - 309  |
| HLMG65  | 2613 | 799736 | 1 - 342 | 15 - 356  |
| HLMG83  | 2614 | 799770 | 1 - 383 | 15 - 397  |

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|----------|------|--------|----------|-----------|--|
| HLMHG384 | 2615 | 572412 | 1 - 99   | 15 - 113  | AC006117,<br>D87432.   |
| HLMH339  | 2616 | 823450 | 1 - 479  | 15 - 493  |  |
| HLMH440  | 2617 | 878117 | 1 - 325  | 15 - 339  | H44968, A1422305, A1554649, A1433337, A1250867, A1160234, AA503975, R50669, A1672302, A1870048, AW051623, W88425, AW363795, AB022524, A1012652, and AB012162.  |
| HLMH517  | 2618 | 714813 | 1 - 441  | 15 - 455  |  |
| HLMHK16  | 2619 | 571414 | 1 - 317  | 15 - 331  |  |
| HLMHK58  | 2620 | 799782 | 1 - 437  | 15 - 451  |  |
| HLMHK61  | 2621 | 856848 | 1 - 342  | 15 - 356  | AC002301.  |
| HLMHK62  | 2622 | 579101 | 1 - 193  | 15 - 207  | AA700441.  |
| HLMH160  | 2623 | 778481 | 1 - 220  | 15 - 234  |  |
| HLMHM63  | 2624 | 578838 | 1 - 219  | 15 - 233  | AA765146.  |
| HLMHM21  | 2625 | 516580 | 1 - 404  | 15 - 418  | AA285377, AA283300, AW404274, and W24845.  |
| HLMHM27  | 2626 | 856846 | 1 - 318  | 15 - 332  | A1844280, and AW274081.  |
| HLMHM31  | 2627 | 925730 | 1 - 1073 | 15 - 1087 | AA809335, AA836104, AA972108, AA705694, AA836103, AB164926, AA485705, AA485839, A1857107, A1702527, AW084036, A1310573, A1340533, AA693331, A1127565, AA001397, A1334893, AA669025, X80340, M96379, U86379, A1137479, Y10655, AF068229, AF091084, A1137267, A1137558, AF093119, A1110225, A1080126, and X57961.  |
| HLMHN37  | 2628 | 723081 | 1 - 339  | 15 - 353  |  |
| HLMHN45  | 2629 | 668906 | 1 - 256  | 15 - 270  | AC005600.  |
| HLMH011  | 2630 | 964945 | 1 - 125  | 15 - 139  |  |
| HLMH021  | 2631 | 799772 | 1 - 224  | 15 - 238  |  |
| HLMH033  | 2632 | 799756 | 1 - 313  | 15 - 327  |  |
| HLMH067  | 2633 | 967636 | 1 - 343  | 15 - 357  |  |
| HLMH074  | 2634 | 953956 | 1 - 281  | 15 - 295  | AA730448, A1174535, A1674840, T90861, AC004257, AF107258, AC003029, Z95116, AC005764, AC008015, AC004491, A1080274, A1033525, Z98044, AC005803, Z73979, AC000353, A1034376, D86993, A1035608, AC004560, AC004876, AC003035, AC005523, AC005529, A1049569, A1078463, AC002350, A1050318, AC004983, Z97054, AC007637, A1049712, AC016025, AC005553, AC005772, AC002558, A109758, AF196779, AC006511, AC007278, AP000555, AC003101, Z99128, AC000379, A1133445, AC004659, A1080243, AP000038, and AP000106. |
| HLMTIR25 | 2635 | 920711 | 1 - 297  | 15 - 311  |  |
| HLMTIR55 | 2636 | 825530 | 1 - 204  | 15 - 218  |  |
| HLMTIR51 | 2637 | 752375 | 1 - 308  | 15 - 322  | AB028953.  |
| HLMTIR41 | 2638 | 574741 | 1 - 219  | 15 - 233  |  |
| HLMTIR66 | 2639 | 574742 | 1 - 582  | 15 - 596  | AA234939, A1016356, A1742982, A1089004, AA236782, A1468803, AA236830, AW242613, and AA234938.  |

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|---|------|--------|---------|----------|
| HLMT67  | 2640 | 579048 | 1 - 342 | 15 - 356 |
| HLMT94  | 2641 | 531054 | 1 - 271 | 15 - 285 |
| HLMH80  | 2642 | 799723 | 1 - 282 | 15 - 296 |
| HLMH31  | 2643 | 536579 | 1 - 331 | 15 - 345 |
| HLMH764   | 2644 | 866458 | 1 - 624 | 15 - 638 |
| AA351877, AI377249, AI377250, AI239499, AC005274, AI132777, and AI103655<br>AU251696, AI224583, AI254508, AI036896, AI890297, AW338376, AA171400, AI439325,<br>AW238341, AW189371, AA425283, AA0642809, AI754926, AA807704, AA469230, AA218684,<br>AI473671, AA669238, AA720582, AI183590, AI801479, AA707747, AA525423, AA679946,<br>AA503298, R99233, AW270468, AI279417, AA601712, AI277373, AI754257, AA084320,<br>AA286836, AW274078, AI278440, N26159, AA197089, AI890468, AA180056, AA113946,<br>AA14503, AI904840, AI860423, AA523812, AI890111, AA828045, AI332615, AA224759,<br>AI744199, AI733523, AA829565, AI913167, AI049994, AI869797, AI800426, AA873737,<br>AW089625, AW328446, AI095206, AI078584, AC005529, AC005527, AI139054, AC006441,<br>AC005940, AC006449, AI024498, AI022316, AC004636, AC004342, AC005225, AI121923,<br>AB023048, AC004797, AI021707, Z83840, AI049776, Z82245, U80017, AC006023, AF111168,<br>AC003682, AF111167, AC005210, AC007066, AI049712, AP000089, AC004755, AI022237,<br>AP000141, AC018769, AC007052, AF190465, AC005837, AC003969, AP000501, U73634,<br>AC007488, AC005620, AC007030, AF196969, AP000359, U78027, AI021393, AC004156,<br>AC004263, Y14768, AI031284, AF129756, AC009336, AC006538, AC003036, AD000092,<br>AP000503, AI033072, AF205588, AF015720, AC003007, Z99774, AI022320, D87675<br>AI035422, AC005070, AC006211, AC006071, AC004638, AC002433, AC005412, AI049761,<br>AI109839, AC005399, AI034548, Z95116, AI022097, AC002347, AC004448, AC007685,<br>AI117258, AC003859, AP000503, AC005803, AI031311, AC005632, AI109963, AC003663,<br>AI033533, AC006060, AI049869, AI033381, AI049793, U82668, AP000694, AF196972,<br>AC007346, AC004967, AC004963, AC005988, AI031286, AC006277, AI229041, AC002991,<br>Z98051, AF130248, AC008154, AC002045, AC002470, U95742, AC005778, AC005937,<br>AI023803, AI031602, AC004150, AI049552, AC004814, Z86090, AC007216, AI009181,<br>AI078621, AC004409, AC005180, AI109827, AI035458, AC006101, AC004021, AC002369,<br>AC005695, AC009288, AC007563, AC007536, AC004584, U91326, AI031589, AC007708,<br>AC016025, Z97630, AC005160, AC005231, AC002350, AI022165, AC004816, AP000354,<br>AF134726, Z93017, AI023575, AI049759, AI035462, Z80998, AC005874, AF134471,<br>AI033527, AC006948, AP000557, AC002314, AC007096, AI121652, AC012099, AC002544,<br>AP000552, AC007390, AC004583, AI033392, AC008018, AC004904, AI049780, AC007068,<br>AC005730, AC002302, AP000511, AC004887, AC004486, Z81315, AC005411, AC005446,<br>AF207955, AC002367, AP000104, AP000032, AC002094, AC005261, AC006197, U91325, |      |        |         |          |

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|--|----------|--------|---------|--|--|
| AC007225, AL035071, AC005207, AC007324, AC005800, AC004929, AC000353, AC003688, AL008718, AC005237, AL034549, AL035086, AC005841, AC007981, AB001523, AF030453, AC009275, AL049872, AC007845, AC005776, U52112, AC005821, AC007021, AC005344, AP00030, AP00211, AP000133, AL021978, AC004811, AL121603, AC004985, AC007774, AL031680, AC004821, AC005358, and AC005088.  |          |        |         |  |  |
| AC002549.  | 15 - 204 |        |         |  |  |
| AC009363, and AC007182.  | 15 - 198 |        |         |  |  |
| AL031282.  | 15 - 293 |        |         |  |  |
| AA559319.  | 15 - 303 |        |         |  |  |
| AA569287, AA603349, AAG39913, AA359559, AA524229, AA887181, AA359422, AA424170, AL569363, AW085581, AA491954, AA226204, Z98742, AC005972, Z83847, AC007277, AC006449, AL046471, AL929855, AA226204, Z98742, AC005972, Z83847, AC007277, AC006449, AC007216, AC005510, AC006251, AC005803, AL133445, Z98884, Z82180, AC006453, AL136295, AC004834, Z99716, AB006638, AC004707, AF038458, AC005280, AC006241, AL024507, AC006149, D83253, AF015720, AC004765, AC002565, AL078644, AC006441, AL031283, AC006120, AJ229041, AL096703, Z96074, AC006060, AC005529, AC004106, AL022721, AC004878, AF033356, AL034406, AC008372, AL031659, AL132826, AC002563, AC006539, AL109798, AC002300, AC007021, U95090, AL031005, AC005102, AL133163, AC005291, AC006512, AC005599, AC005484, AC007899, AC004821, AF207550, AC004382, AC002347, AC004750, AC004966, and AL031668.  | 15 - 586 |        |         |  |  |
| H67040, W20228, AL049836, Z94160, AF196969, AC004509, Z97054, AC009501, AC006511, AL023753, Z82244, AF031078, AF030876, and AC002407.  | 15 - 331 |        |         |  |  |
| T03401, AA811741, AA488689, W00856, AA192764, T41134, T07327, AL174489, AA470567, H72444, AA364082, AA368329, AA411590, F00937, AA736713, AA434346, H54729, AA827383, AA741403, AL018726, AA481765, T03928, AA634822, AA527030, T83057, AL143653, AA663373, AA4748840, AA279649, AL130709, AL156588, AL1537995, AW148775, AL14682, AL291439, R95840, A1928890, AA831801, AA230221, AW190277, AA832016, AA668727, T68315, AL626595, AA598889, N803919, AA587835, AA4214457, AA489240, AA713735, AA598497, AW236233, AA605243, AA167809, AA740571, A1873627, N72170, A910316, AA714073, AA339123, AW227640, H78808, AL040472, AA598740, AA533660, T46997, AA513884, AL135761, AW079076, H789071, H63220, AW019964, AL150934, AA666066, AA084950, AA846014, AA525407, N47820, H43183, AA515351, AW229465, AL624038, AW237805, AL015948, AA584788, N55296, AA192293, AL162694, AL860535, AL903464, AA084439, AA384531, AT732116, N66744, AA594179, F19019, A1871691, AL039117, AA155817, H78835, AA680221, AA055667, AL114733, AL133552. | 15 - 401 |        |         |  |  |
| HLMIH214   | 2645     | 799724 | 1 - 190 |  |  |
| HLMHZ59  | 2646     | 530071 | 1 - 184 |  |  |
| HLMIQ94  | 2647     | 710391 | 1 - 279 |  |  |
| HLMIQ70  | 2648     | 578795 | 1 - 289 |  |  |
| HLMIQ22  | 2649     | 572424 | 1 - 132 |  |  |
| HLMIQ11  | 2650     | 967291 | 1 - 289 |  |  |
| HLMIQ50  | 2651     | 856845 | 1 - 572 |  |  |
| HLMIQ72  | 2652     | 799747 | 1 - 317 |  |  |
| HLMIH10  | 2653     | 964890 | 1 - 387 |  |  |

|         |      |        |         |   |
|---------|------|--------|---------|---|
|         |      |        |         | <p>             AI003137, AI039257, AI870176, AA831997, T46698, AI669149, AI459879, AA564753, AA741301, AA601378, AA421536, AI002863, F25759, AA522864, AI054341, AA513484, AA525807, AA579082, AA827113, AI654520, AA485979, W69639, AI792623, AI003620, AA57826, AA573062, AA323838, AI132445, AA568950, AW162762, AA808064, X69951, Z83844, AI079303, AC006241, L78833, AI035414, AP000099, AP000036, U73648, AC002037, AC004500, AI031776, AI031680, AC005180, U55184, AI023574, AC005777, AC007193, Z72006, AI031719, AI132641, U95626, Z83820, AC005619, AI109939, AC004675, AC005409, AF088219, Z98941, U95742, AC007216, Z93848, L12582, AC005331, X64467, AP000348, AF007565, AC005566, AC004760, AC005778, AI031803, AP000255, AI033392, AC004653, AI109963, AI049575, AC000379, AC005841, AP000213, AC004522, AI109623, AI078581, AC004230, AP000347, AI035699, AI035588, AC005215, AP00135, AC004655, AC003689, AC004838, AC007631, AI096791, AP000031, AC000111, AF165926, AC008014, AC007736, AI021937, AC011331, AC006538, AC006115, AC005815, AC004025, AC006011, AC006146, AC005722, AF109907, L05072, AC005943, AC007204, AF043945, AC007537, AC003072, Z82208, AP000563, AC005895, AC002407, AC005057, AC004132, AI035400, AI031673, Z82201, AC004886, U52111, AC005730, AC002549, AC002094, AI132987, AC007842, AC002492, AI135744, Z74739, AC016831, M81596, AC005914, AC007157, M74558, AC005519, AC004647, AC005576, AI008630, AC004031, AI022327, AC002404, AI023656, AI030596, AC008115, AI135960, AI131016, AI110200, AP0060469, AP000214, L38592, Z49155, AC002481, Z69890, AF217403, U73330, AP000302, AF006487, AC005236, AP000534, AC006950, AD000864, AC005390, AC007292, AC005252, AC005197, AC005620, AC003111, AC000095, U93305, AF027974, AC005271, AI080242, AI022302, AC005214, U91320, AC003692, AI031602, AC003041, AC004131, Z98750, AI049612, AI023575, AC005606, AI109956, AI008734, AF003626, AP000221, AC007421, AI049538, AC006968, AI031594, AI035249, AP000046, AP000114, AP000074, AP000085, U89337, AI049610, AC005752, AC005300, Z98172, Z97876, AC002115, AI080316, AC005102, AP000952, Z95113, AD000092, AI049843, AI080776, AI031447, AF196969, AI008730, AC005277, AI109627, AI050307, AI132826, AC008044, AC006543, AC005539, Z98745, AC002418, Z83846, AC005681, Z82203, AI031643, AF064861, AI020997, AC004590, AC004967, U62317, AI031904, AC003969, AC006317, Z83843, AC005913, AC004933, AI049588, AC005915, AC007676, AC004895, AI080286, AC009501, AC004674, AC007179, AC002349, AC009542, AC010205, Z99884, AC006441, AC007387, AC005598, AC012085, AC004882, AC004386, AC003013, AC006385, AC005697, AC009330, AF196779, AC004485, AC005678, AC004106, AC009509, AC006946, AC005323, L44140, Z99716, and AF111168.           </p> |
| HLMIH44 | 2654 | 883871 | 1 - 524 | AA773956.   |
| HLMI62  | 2655 | 799713 | 1 - 422 | AI133485.   |
| HLMIH73 | 2656 | 576692 | 1 - 336 | AI880829.   |

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|---------|------|--------|---------|----------|---|
| HLMIQ47 | 2657 | 531224 | 1 - 173 | 15 - 187 | R93381, H53163, H28130, R93382, H53060, AW015657, A1092249, T86432, H49391, AW190127, AA0625561, A1339159, AW250827, A1357128, A1148823, A1818046, AA579979, A1439571, A1095655, AW264805, W72325, AA379087, A1817450, A1761511, AA625749, AA099988, AW081185, AW389525, A1885881, AA745180, AA805668, H64600, AA211386, W72109, U51698, AA973184, A158231, AA379088, AA765921, A1744539, A1885882, AW377601, AA291023, A1933181, A1877742, AA902858, A1911887, A1337237, F37915, AA317577, F34702, W77795, H49202, A1372721, AC003103, AF161395, A1249940, and AF083208.   |
| HLMIQ23 | 2658 | 686670 | 1 - 700 | 15 - 714 |   |
| HLMIQ11 | 2659 | 921009 | 1 - 772 | 15 - 786 |   |
| HLMIQ72 | 2660 | 715650 | 1 - 358 | 15 - 372 |   |
| HLMIQ73 | 2661 | 764522 | 1 - 386 | 15 - 400 |   |
| HLMIQ83 | 2662 | 576657 | 1 - 310 | 15 - 324 |   |
| HLMIQ23 | 2663 | 916938 | 1 - 345 | 15 - 359 |   |
| HLMIQ40 | 2664 | 578756 | 1 - 433 | 15 - 447 |   |
| HLMIQ13 | 2665 | 924651 | 1 - 337 | 15 - 351 |   |
| HLMIQ56 | 2666 | 572430 | 1 - 256 | 15 - 270 |   |
| HLMIQ77 | 2667 | 572509 | 1 - 348 | 15 - 362 |   |
| HLMIQ77 | 2668 | 971141 | 1 - 298 | 15 - 312 | A1880168, AW074398, AA435854, AW169687, A1344844, F19238, AA548137, A1345654, W60516, AA515224, A1205126, AW193295, AA747472, AW265654, A1890928, A160117, A1914706, AW327360, A1063786, AW265197, F79989, AW261871, F28576, A1569086, A1890570, A17166815, AA229785, A1079910, A1865364, A1454536, A1708009, A1874873, A1962050, A158229, AA308806, AW406755, A1079645, A1565988, A1890923, F36273, A1917271, A1284640, A1929531, AA381903, A1051551, AW339687, A1042856, AA559290, A1635272, AW302709, AA244415, AW162049, A1904894, AA515051, A1579184, A1041368, A1818620, A1471374, A1951495, A1357551, A1003743, A1339850, F25203, AW264969, A1252085, A1557323, A1238016, A1252114, AW264973, A1041146, A1792903, A1792864, A1733957, A1038785, A1734002, A1307099, A1623720, A1890052, A1038279, AA641103, A1138265, A17169230, A1251002, A1433187, A1610159, A1080134, A1038279, AA179136, A1349874, A1521618, AA599021, F24284, A1110770, A1473943, A1298710, N71724, AW090811, AW3337985, AW338869, AW341892, T71998, AW419262, A1802556, AA715270, A1499503, AA482711, F18974, A1971188, A1471481, AA347927, AW088616, AC006237, AC005827, AC006137, A1031983, AC004816, AC005295, AC006412, AC004931, AC006299, Z98950, A1900354, A17134726, AC004019, Z85996, AC007320, AC004687, A1109628, AC005606, A1901552, AC004065, AC005632, A1049871, A1049775, AC004685, A1901054, AC007161, AC005815, AC005822, A1000292, A1008708, AC005164, A1039905, AC004451, |
| HLMIQ72 | 2669 | 715650 | 1 - 358 | 15 - 372 |   |
| HLMIQ73 | 2661 | 764522 | 1 - 386 | 15 - 400 |   |
| HLMIQ83 | 2662 | 576657 | 1 - 310 | 15 - 324 |   |
| HLMIQ23 | 2663 | 916938 | 1 - 345 | 15 - 359 |   |
| HLMIQ40 | 2664 | 578756 | 1 - 433 | 15 - 447 |   |
| HLMIQ13 | 2665 | 924651 | 1 - 337 | 15 - 351 |   |
| HLMIQ56 | 2666 | 572430 | 1 - 256 | 15 - 270 |   |
| HLMIQ77 | 2667 | 572509 | 1 - 348 | 15 - 362 |   |
| HLMIQ77 | 2668 | 971141 | 1 - 298 | 15 - 312 |   |

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|--|------|--------|---------|----------|
| AL109618, AC005071, AC006538, AC006071, AP000111, AP000043, AC005785, AC005520, AC007065, AC004963, Z98043, AL1078639, AL133371, AL049219, AL049776, AL117355, AC004866, AL022694, AL035450, AP000097, AL034420, AP000020, AC002483, AL021029, AL131358, AB002390, AC002499, AL049860, AF023460, AL117351, AC007539, AL022927, AC004914, AP000240, AC005939, A39972, AC006127, AC006537, AC005568, AL040839, AF196969, AL003147, AC000958, AC006249, AC004042, AC006561, AL031775, AC004808, AF196972, AL022328, AC005099, AC005488, Z82206, AL035405, AC006026, AC005365, AL031346, AL043470, AL035703, Z98884, AC009891, AP000044, AL049872, MB7918, AL033458, AC004008, AC002564, AL133500, AL133396, AC000396, AL033543, AL031675, AP000173, AC006061, AL031905, AC006597, AC003682, AL022476, AF120990, AC005829, AC006950, M26434, AC005393, AL008723, AC004383, AL031651, Z95114, AC002430, L44140, AL021453, AC007387, AC007384, AL118518, AF015725, AL121915, AL049745, AC007558, Z84469, AL031277, AC005341, Z83844, AC004664, AC005040, AJ229042, Z86062, AF123462, AC005740, AL031120, AF125348, AC005592, AC002072, AL031296, U80017, Z98747, AL050318, AL137100, AC005552, AC002059, AC000119, AC006312, AC005823, AL121748, AC004239, AB020867, AL034451, AC002349, AC004072, AL109865, AC006476, AF001172, AC004057, AP001042, AP001043, AL133382, AF017257, AC006591, AL035588, Z95889, AC006996, AL022162, AL080243, AC002316, AL035683, AC005041, AC002055, AC008044, AC004132, AC007064, AC004876, AL035684, AC006013, AP000355, AC009227, AL078621, AL136504, AL117339, AC008372, AC002454, AC005902, Z98257, Z69666, AF205588, AC005782, AC002350, AL031276, AC005996, AC006007, AC004675, AC004812, AC002351, AC004832, AF088219, AC009405, AP000298, AC008041, Z83826, AC004622, AL049834, AF027390, AC003065, U73635, AL008719, AB023057, AC005057, AP000520, AC005002, AC006208, AC007245, AC005411, AC005069, AC003041, AL049712, U32521, AB007881, AC005033, AL135746, AL239321, and AC007488. |      |        |         |          |
| AA148615, AA826983, AL002177, AA832130, AA501575, AA911524, N94192, N42040, AL048544, AL038936, AW3380074, AL046678, H21449, AA176603, AD338426, H42075, RS9567, AL043098, AW438916, AW075915, AA172191, N27833, H96518, AL044590, AA319830, AA3304977, F32893, AL038909, AA321105, AL171418, AW270258, H15814, AA379332, AT744949, AA226584, AA513850, AA381762, H60188, AA713922, AA381747, AL0400473, AB86060, F18350, AA226270, Z93626, AL500454, AA744444, AW247819, D44678, AB886365, AB925321, AA745356, W90237, AA570416, AA987962, AA528441, AA379133, AA461308, AA574442, AA488620, N27362, AA559352, AA410926, AA610509, N69316, AA747243, AL298281, AA720746, AW008237, AA804993, AB912322, AW236342, AW078495, N54764, AL932884, AW440976, AA573127, H72688, AA215335, AL446601, AL244758, H55914, AW341903, T48341, AA548087, AA084070, AL075266, AL613419, AA648044, AL291174, AL232616, AA984191, CL16699, N27651, AL625468, AL291268, AL537030, AB926681, AL282336,   | 6269 | 578751 | 1 - 315 | 15 - 329 |